

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 30, 2005, 02:36:38 ; Search time 2069 Seconds  
(without alignments)  
8548.165 Million cell updates/sec

Title: US-08-731-499-9\_COPY\_10001\_10365

Perfect score: 365

Sequence: 1 TTTGTGGTCTCCAGGCTT.....GATGCACTCCACGCGTTG 365

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_htg.\*

3: gb\_in.\*

4: gb\_om.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pl.\*

9: gb\_pr.\*

10: gb\_ro.\*

11: gb\_sts.\*

12: gb\_sy.\*

13: gb\_un.\*

14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	365	100.0	10365	6	BD085733 Genes fro
2	365	100.0	121143	9	AF1312915 Homo sapi
3	365	100.0	128871	9	AL157838 Human DNA
4	363.4	99.6	105023	3	AC116668 Trypanoso
5	164	44.9	109710	9	AL050402 Human DNA
6	159.2	43.6	165365	2	AC011959 Homo sapi
7	159.2	43.6	184851	9	AC100809 Homo sapi
8	159.2	43.6	321261	9	AF131216 Homo sapi
9	153.8	42.1	188141	2	AC023120 Homo sapi
10	153.4	42.0	192499	2	AC133913 Homo sapi
11	152.6	41.8	117230	9	HSJ684F13
12	152.2	41.7	168495	2	AC084299 Homo sapi
13	152	41.6	162216	2	AC136144 Pan trogl
14	151.4	41.5	151408	2	AC010397 Homo sapi
15	151.4	41.5	155046	2	AC146346 Pan trogl
16	151.4	41.5	182368	2	AC145822 Pan trogl
17	151.4	41.5	184010	2	AC150025 Papio anu
18	151.4	41.5	196473	2	AC146345 Pan trogl
19	151.4	41.5	253038	2	AC008930 Homo sapi

c 20	151	41.4	182509	9	AC112211	Homo sapi
c 21	150.2	41.2	157267	9	AC104938	Homo sapi
c 22	150.2	41.2	170388	2	AC027750	Homo sapi
c 23	150.2	41.2	203530	9	AC025097	Homo sapi
c 24	149.4	40.9	180303	9	AL672045	Human DNA
c 25	149.4	40.9	201012	2	AC021189	Homo sapi
c 26	149.2	40.9	167869	9	AC073342	Homo sapi
c 27	149	40.8	104295	9	AC117502	Homo sapi
c 28	149	40.8	149202	2	AC022160	Homo sapi
c 29	148.8	40.8	102562	2	AC109516	Homo sapi
c 30	148.8	40.8	119050	9	AC127024	Homo sapi
c 31	148.8	40.8	153520	9	AC130324	Homo sapi
c 32	148.8	40.8	157502	2	AC145842	Papio anu
c 33	148.8	40.8	173577	2	AC146322	Papio anu
c 34	148.8	40.8	180537	2	AC023266	Homo sapi
c 35	148.8	40.8	192030	9	AC092406	Papio anu
c 36	148.6	40.7	160099	2	AC145498	Papio anu
c 37	148.4	40.7	187738	9	AL451140	Human DNA
c 38	148.4	40.7	189456	9	AC008509	Homo sapi
c 39	148	40.5	189174	9	AC092687	Homo sapi
c 40	147.6	40.4	83661	9	AP001439	Homo sapi
c 41	147.6	40.4	100000	9	AP000143	Homo sapi
c 42	147.6	40.4	110000	2	AC143327_2	Continuation (3 of
c 43	147.6	40.4	121597	9	AP000090	Homo sapi
c 44	147.6	40.4	168778	9	HS490024	Human DNA
c 45	147.6	40.4	189256	2	AL391004	Homo sapi

ALIGNMENTS

RESULT 1  
BD085733  
LOCUS BD085733 10365 bp DNA linear PAT 27-AUG-2002  
DEFINITION Genes from the 20q13 amplicon and their uses.  
ACCESSION BD085733  
VERSION JP 2001524802-A/9  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1 (bases 1 to 10365)  
AUTHORS Gray,J.W., Collins,C.C., Hwang,S.I., Godfrey,T., Kowbel,D. and Rommens,J.  
TITLE Genes from the 20q13 amplicon and their uses  
JOURNAL Patent: JP 2001524802-A 9 04-DEC-2001:  
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA  
COMMENT OS Artificial Sequence  
PN JP 2001524802-A/9  
PD 04-DEC-2001  
PF 15-JUL-1997 JP 1998506264  
PR 15-JUL-1996 US 08/680395,16-OCT-1996 US 08/731499 PR  
17-JAN-1997 US 08/785532  
PI JOE W GRAY, COLIN CONRAD COLLINS, SOO IN HWANG, TONY GODFREY, PI DAVID KOWBEL,  
PI JOHANNA ROMMENS  
PC C12N15/11.C1Q1/68.A61K48/00  
CC Description of Artificial Sequence:Genomic Sequence encoding  
CC ZABCl  
FH Key Location/Qualifiers  
FT source 1..10365  
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FT /mol\_type='genomic DNA'  
FT /db\_xref='taxon:32630'

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Best Local Similarity 100.0%; Pred. No. 3.4e-90;  
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	10301	TGAGGTGATCCTCTGCGTTGACCTCCCAAGTATCTTTAGACTACAGATGCACCTCCACC	10360	fragment, SC20pF17C6 deposited in GenBank Accession Number
Qy	361	GCTTG 365		294682.1"
Db	10361	GCTTG 10365		3106..3412
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LOCUS				
DEFINITION				
ACCESSION				
VERSION				
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
MEDLINE				
PUBMED				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
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AL157838.24"
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Query Match 100.0%; Score 365; DB 9; Length 121143;
Best Local Similarity 100.0%; Pred. No. 3.4e-90;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTTGTGGTCTCCAAAGCTTACTTAACCTCTGTGGGTTTAACTCTTAACCCCTGTGATTTT 60
Db TTTGTGGTCTCCAAAGCTTACTTAACCTCTGTGGGTTTAACTCTTAACCCCTGTGATTTT 97696
Qy 61 ATTCTTTTGGATTTGTTTGTAGTCTTACTTTATTTTGTAGAGAAAGGCTCTGTCCGTCACT 120
Db TTTGTGGTCTCCAAAGCTTACTTAACCTCTGTGGGTTTAACTCTTAACCCCTGTGATTTT 97696
Qy 97695 ATTCTTTTGGATTTGTTTGTAGTCTTACTTTATTTTGTAGAGAAAGGCTCTGTCCGTCACT 180
Db TTTGTGGTCTCCAAAGCTTACTTAACCTCTGTGGGTTTAACTCTTAACCCCTGTGATTTT 97696
Qy 121 AGATTGGAGTGCAGCGGTGTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAAGA 180
Db AGATTGGAGTGCAGCGGTGTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAAGA 97576
Qy 181 GATCTTTTCGCTCAGCTTCCAGGTAGCTGAGAGTATATATGTGCTGTACATGCACAGC 240
Db GATCTTTTCGCTCAGCTTCCAGGTAGCTGAGAGTATATATGTGCTGTACATGCACAGC 97516
Qy 241 TGATTTTAAATTTTGTAGATGGAGTTGCCAGGCTGTCTTGAACCTCTCGCC 300
Db TGATTTTAAATTTTGTAGATGGAGTTGCCAGGCTGTCTTGAACCTCTCGCC 97456
Qy 301 TGAGGTGATCCTCTCGTTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACC 360
Db TGAGGTGATCCTCTCGTTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACC 97396
Qy 361 GCTTG 365
Db GCTTG 97391

RESULT 3
AL157838/c
LOCUS
DEFINITION
Human DNA sequence from clone RP4-724E16 on chromosome
20q13.12-13.32 Contains the ZNF217 gene for zinc finger protein
217, a novel gene, a putative novel gene, ESTs, GSSs, STSs and two
CpG islands, complete sequence.
ACCESSION AL157838 128871 bp DNA linear PRI 23-FEB-2001
VERSION AL157838.24 GI:9588158
KEYWORDS HTG; CpG island; zinc finger; ZNF217.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 128871)
AUTHORS Wilson,S.
TITLE Direct Submission
JOURNAL Submitted (23-FEB-2001) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerequest@sanger.ac.uk
COMMENT On Jul 31, 2000 this sequence version replaced gi:9408255.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
```

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL; Sw:, SWISSPROT; Tr:, TrEMBL; Wp:, WormPEP; information on the WORMPEP database can be found at

[http://www.sanger.ac.uk/Projects/C\\_elegans/wormpep](http://www.sanger.ac.uk/Projects/C_elegans/wormpep) This sequence was generated from part of bacterial clone contigs of human chromosome 20, constructed by the Sanger Centre Chromosome 20 Mapping Group. Further information can be found at

<http://www.sanger.ac.uk/HGP/Chr20>

This sequence is the entire insert of clone RP4-724E16. The true right end of clone RPS-823G15 is at 19684 in this sequence. This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. RP4-724E16 is from the library RPCI-4 constructed by the group of Pieter de Jong. For further details see

<http://www.chori.org/bacpac/home.htm>

VECTOR: pCYPAC2.

#### FEATURES

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Location/Qualifiers

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/notes="AluSx repeat: matches 126. .312 of consensus"  
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Query Match      100.0%; Score 365; DB 9; Length 128871;
Best Local Similarity 100.0%; Pred. No. 3.4e-90;
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTTGTGCTCTCCAAGGCTTACTTAACCTCTGTGGTTTAACTCTTAACCCCTGTGTAATTT 60
Db 64003 TTTGTGCTCTCCAAGGCTTACTTAACCTCTGTGGTTTAACTCTTAACCCCTGTGTAATTT 63944

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Qy 121 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAGA 180
Db 63883 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAGA 63824

Qy 181 GATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTCTACATGCACAGC 240
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Qy 241 TGATTTTAAATTTTCTTGTAGAGATGGAGTTCGCCAGGCTGGTCTTGAACCTCGTGC 300
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Qy 361 GCTTG 365
Db 63643 GCTTG 63639

RESULT 4
AC116668
LOCUS
DEFINITION AC116668 105023 bp DNA linear HTG 01-MAY-2002
IN PROGRESS ***, 3 unordered pieces.
ACCESSION AC116668
VERSION AC116668.5 GI:20376999
KEYWORDS HTG; HTGS PHASE1.
SOURCE Trypanosoma brucei
ORGANISM Trypanosoma brucei
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Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.
1 (bases 1 to 105023)
El-Sayed,N.M., Ghedin,E., Song,J., Larkin,C., Wanless,D., Jones,K.,
Peterson,J., Hou,L., Zhao,H., Mason,T., Militscher,J., Pai,G., Van
Aken,S., Uterback,T., Khalak,H.G., Gerard,C., Leech,V., Ullu,E.,
Melville,S., White,O., Adams,M.D., Donelson,J.E. and Fraser,C.M.
Trypanosoma brucei GUTat10.1 RPC193-45E22 BAC genomic sequence
Unpublished
2 (bases 1 to 105023)
El-Sayed,N.M., Khalak,H. and Adams,M.D.
Direct Submission
Submitted (02-APR-2002) The Institute for Genomic Research, 9712
Medical Center Dr, Rockville, MD 20850, USA
3 (bases 1 to 105023)
El-Sayed,N.M., Khalak,H. and Adams,M.D.
Direct Submission
Submitted (01-MAY-2002) The Institute for Genomic Research, 9712
Medical Center Dr, Rockville, MD 20850, USA
On May 1, 2002 this sequence version replaced gi:20340472.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 85781: contig of 85781 bp in length
* 85782 85806: gap of unknown length
* 85807 102956: contig of 17150 bp in length
* 102957 102981: gap of unknown length
* 102982 105023: contig of 2042 bp in length.

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/mol_type="genomic DNA"
/isolate="GUTat10.1"
/db_xref="taxon:5691"
/chromosomes="V"
/clone="RPC193-45E22"

ORIGIN

Query Match      99.6%; Score 363.4; DB 2; Length 105023;
Best Local Similarity 99.7%; Pred. No. 9.4e-90;
Matches 364; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTTGTGCTCTCCAAGGCTTACTTAACCTCTGTGGTTTAACTCTTAACCCCTGTGTAATTT 60
Db 14284 TTTGTGCTCTCCAAGGCTTACTTAACCTCTGTGGTTTAACTCTTAACCCCTGTGTAATTT 14343

Qy 61 ATTCCTTTTGAATTTCTTGTAGTCTTACTTATTTTATTTAGAGAAGGCTCTTGCTCCGTCATCT 120
Db 14344 ATTCCTTTTGAATTTCTTGTAGTCTTACTTATTTTATTTAGAGAAGGCTCTTGCTCCGTCATCT 14403

Qy 121 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAGA 180
Db 14404 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAGA 14463

Qy 181 GATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTCTACATGCACAGC 240
Db 14464 GATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTCTACATGCACAGC 14523

Qy 241 TGATTTTAAATTTTCTTGTAGAGATGGAGTTCGCCAGGCTGGTCTTGAACCTCGTGC 300
Db 14524 TGATTTTAAATTTTCTTGTAGAGATGGAGTTCGCCAGGCTGGTCTTGAACCTCGTGC 14583

Qy 301 TGAGGTGATCCTCTCGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACC 360
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Qy 361 GCTTG 365
Db 14643 GCTTG 365
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Db	14644	GCTTG	14648	
RESULT 5	HSBA46E17			
LOCUS	HSBA46E17	109710 bp	DNA	linear PRI 02-DEC-2000
DEFINITION	Human DNA sequence from clone RP11-46E17 on chromosome 22, complete sequence.			
ACCESSION	AL050402	16	GI:5832404	
VERSION	AL050402.16			
KEYWORDS	HTG.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
REFERENCE	1	(bases 1 to 109710)		
AUTHORS	Collier,R.			
TITLE	Direct Submission			
JOURNAL	Submitted (01-DEC-2000) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk			
COMMENT	<p>requests: clonerquests@sanger.ac.uk</p> <p>On Sep 6, 1999 this sequence version replaced gi:5791503.</p> <p>During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.</p> <p>The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em., EMBL; Sw., SWISSPROT; Tr., TREMBL; Wp., WORMPEP; Information on the WORMPEP database can be found at <a href="http://www.sanger.ac.uk/Projects/C_elegans/wormpep">http://www.sanger.ac.uk/Projects/C_elegans/wormpep</a> This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated repeat sequence elements. Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key. This sequence was generated from part of bacterial clone contigs of human chromosome 22, constructed by the Sanger Centre Chromosome 22 Mapping Group. Further information can be found at <a href="http://www.sanger.ac.uk/HGP/Chr22">http://www.sanger.ac.uk/HGP/Chr22</a> RP11-46E17 is from the library RPCI-11.1 constructed by the group of Pieter de Jong. For further details see <a href="http://www.chori.org/bacpac/home.htm">http://www.chori.org/bacpac/home.htm</a> VECTOR: pBACe3.6</p> <p>IMPORTANT: This sequence is not the entire insert of clone RP11-46E17 it may be shorter because we sequence overlapping sections only once, except for a 100 base overlap.</p> <p>The true left end of clone RP1-205F14p is at 109611 in this sequence. The true right end of clone RP1-231P7p is at 100 in this sequence.</p>			
FEATURES	<p>source</p> <p>1. 109710</p> <p>/organism="Homo sapiens"</p> <p>/mol_type="genomic DNA"</p> <p>/db_xref="taxon:9606"</p> <p>/chromosome="22"</p> <p>/clone="RP11-46E17"</p> <p>/clone_lib="RPCI-11.1"</p> <p>103..416</p> <p>/note="AluSg1 repeat: matches 1..306 of consensus"</p> <p>4948..5067</p> <p>/note="MER45 repeat: matches 1..120 of consensus"</p> <p>6308..6764</p> <p>/note="L1MB5 repeat: matches 5577..6034 of consensus"</p> <p>9512..9946</p> <p>/note="match: GSS: Em:AQ900161"</p> <p>9706..10111</p> <p>/note="match: STS: Em:HSB2942C1"</p> <p>9862..9897</p> <p>/note="18 copies 2 mer tc 94% conserved"</p> <p>11101..11201</p>			
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	misc_feature			
	repeat_region			
	repeat_region			



Insert size: 185000; agarose-fp  
Insert size: 163865; sum-of-contigs  
Quality coverage: 2.8 in Q20 bases; agarose-fp  
Quality coverage: 3.2 in Q20 bases; sum-of-contigs  
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\* NOTE: This is a 'working draft' sequence. It currently  
\* consists of 16 contigs. The true order of the pieces  
\* is not known and their order in this sequence record is  
\* arbitrary. Gaps between the contigs are represented as  
\* runs of N, but the exact sizes of the gaps are unknown.  
\* This record will be updated with the finished sequence  
\* as soon as it is available and the accession number will  
\* be preserved.

1 1204: contig of 1204 bp in length  
\* 1205: gap of 100 bp  
\* 1304: contig of 1946 bp in length  
\* 1305: gap of 100 bp  
\* 3250: contig of 1946 bp in length  
\* 3251: gap of 100 bp  
\* 3351: contig of 3574 bp in length  
\* 3352: gap of 100 bp  
\* 6925: contig of 2741 bp in length  
\* 7025: gap of 100 bp  
\* 7026: contig of 5298 bp in length  
\* 7027: gap of 100 bp  
\* 7028: contig of 2751 bp in length  
\* 7029: gap of 100 bp  
\* 7030: contig of 6211 bp in length  
\* 7031: gap of 100 bp  
\* 7032: contig of 6585 bp in length  
\* 7033: gap of 100 bp  
\* 7034: contig of 8019 bp in length  
\* 7035: gap of 100 bp  
\* 7036: contig of 6892 bp in length  
\* 7037: gap of 100 bp  
\* 7038: contig of 10141 bp in length  
\* 7039: gap of 100 bp  
\* 7040: contig of 11389 bp in length  
\* 7041: gap of 100 bp  
\* 7042: contig of 11711 bp in length  
\* 7043: gap of 100 bp  
\* 7044: contig of 13149 bp in length  
\* 7045: gap of 100 bp  
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\* 7047: gap of 100 bp  
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\* 7049: gap of 100 bp

FEATURES  
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Query Match 43.6%; Score 159.2; DB 2; Length 165365;  
Best Local Similarity 72.4%; Pred. No. 2.8e-33;  
Matches 220; Conservative 0; Mismatches 83; Indels 1; Gaps 1;  
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QY 178 AGAGATCCTTCTGCTCAGCTTCCCAGGTAGCTGAGACTATATGTGC-TGCTACCATGCA 236  
Db 64044 AGCAATCTCTGCTCAGCTTCTGAGTGTGGAGTGTGAGCTGCACACACACACC 63985  
QY 237 CAGCTGATTTTAAATTTTGTAGAGATGGAGTCCCGAGGCTGTGTAAGTCTCT 296  
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QY 297 GGCTCAGGTGATTCCTCTGCGTTGACCTCCCAAGTATCTTAGACTACAGATGCATCCA 356  
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Db 63864 CCAC 63861  
RESULT 7  
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LOCUS  
DEFINITION Homo sapiens chromosome 8, clone CTC-493P15, complete sequence.  
AC100809  
ACCESSION  
VERSION AC100809.9 GI:26553405  
KEYWORDS HTG.  
SOURCE  
ORGANISM Homo sapiens (human)  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 184851)  
Birren, B., Nusbaum, C. and Lander, E.  
Homo sapiens chromosome 8, clone CTC-493P15  
Unpublished  
2 (bases 1 to 184851)  
Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N.,  
Anderson, S., Barna, N., Bastien, V., Boguslavsky, I., Bouckhgalter, B.,  
Brown, A., Camarata, J., Campiano, A., Chang, J., Chazaro, B.,  
Choepel, Y., Collangelo, M., Collins, S., Collamore, A., Cook, A.,  
Cooke, P., DeArellano, K., Dewar, K., Diaz, J. S., Dodge, S., Faro, S.,  
Ferreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyna, S.,  
Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-pierre, N.,  
Hagos, B., Heaford, A., Horton, L., Hulme, W., Iliev, I., Johnson, R.,  
Jones, C., Kamat, A., Karatas, A., Kells, C., Larocque, K.,  
Lamazares, R., Lander, T., Lehoczy, J., Levine, R., Liu, G.,  
Maclean, C., Macdonald, P., Major, J., Marquis, N., Matthews, C.,  
McCarthy, M., McEwan, P., McKernan, K., McPheeters, R., Meidrim, J.,



Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Retta, R., Rieback, M., Riley, R., Rise, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Schupback, R., Seaman, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N., Straus, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Travis, N., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

# Direct Submission

Submitted (22-NOV-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

3 (bases 1 to 184851)

## REFERENCE

### AUTHORS

Birren, B., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Bloom, T., Boguslavsky, L., Boukhgalter, B., Camarata, J., Chang, J., Chazaro, B., Choepel, Y., Collymore, A., Cook, A., Cooke, P., DeArrellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., Fitzgerald, M., Gage, D., Galagan, J., Gardyna, S., Gord, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., Macdonald, P., Major, J., Matthews, C., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Roy, A., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

## Direct Submission

Submitted (07-NOV-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

4 (bases 1 to 184851)

## REFERENCE

### AUTHORS

Birren, B., Nusbaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Bloom, T., Boguslavsky, L., Boukhgalter, B., Camarata, J., Chang, J., Chazaro, B., Choepel, Y., Collymore, A., Cook, A., Cooke, P., DeArrellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., Fitzgerald, M., Gage, D., Galagan, J., Gardyna, S., Gord, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, G., MacLean, C., Macdonald, P., Major, J., Matthews, C., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Roy, A., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

## Direct Submission

Submitted (12-DEC-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

On Dec 12, 2002 this sequence version replaced gi:24757047.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WITB

Web site: <http://www-seq.wi.mit.edu>

Contact: [sequence\\_submissions@genome.wi.mit.edu](mailto:sequence_submissions@genome.wi.mit.edu)

----- Project Information

Center project name: L21480

Center clone name: 493\_P\_15

----- Location/Qualifiers

1. 184851

/organism="Homo sapiens"

## FEATURES

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Oy 293 TCCTGGCCTCAGGTGATCCCTCGTGGTGAACCTCCCAAGTATCTTAGACTACAGATGCAC 352
Db 10092 TCCTGGCCTCAGGTGATCCACCTGCTGGCCCCCAAGTGGTGGGATTACAGGTGTGA 10151
Oy 353 TCACACCGCTTG 365
Db 10152 GCCATTGTGCGTG 10164

RESULT 12
AC084299 168495 bp DNA linear HTG 22-OCT-2000
LOCUS Homo sapiens chromosome 7 clone RP11-374D24, WORKING DRAFT
DEFINITION SEQUENCE, 19 unordered pieces.
ACCESSION AC084299
VERSION AC084299.1 GI:10944492
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 168495)
AUTHORS Waterston,R.H.
TITLE The sequence of Homo sapiens clone
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 168495)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (21-OCT-2000) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA

COMMENT
----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
----- Project Information -----
Center project name: H NH0374D24
----- Summary Statistics -----
Sequencing vector: M13, 100%
Sequencing vector: plasmid, 0%
Chemistry: Dye-primer ET; 100% of reads
Chemistry: Dye-terminator Big Dye; 0% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 154635 bases at least Q40
Consensus quality: 159811 bases at least Q30
Consensus quality: 162382 bases at least Q20
Insert size: 170000; agarose-fp
Insert size: 166695; sum-of-contigs
Quality coverage: 4.03 in Q20 bases; agarose-fp
Quality coverage: 4.16 in Q20 bases; sum-of-contigs
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* NOTE: This is a 'working draft' sequence. It currently
* consists of 19 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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* 1384 3418: contig of 2035 bp in length
* 3419 3518: gap of unknown length
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* 5660 5759: gap of unknown length
* 5760 7665: contig of 1906 bp in length
* 7666 10469: gap of unknown length
* 10470 10569: gap of unknown length

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22400: contig of 5768 bp in length
22301: gap of unknown length
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40948: contig of 10221 bp in length
41048: gap of unknown length
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49351: gap of unknown length
57626: contig of 8275 bp in length
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68382: contig of 10856 bp in length
68482: gap of unknown length
78948: contig of 10466 bp in length
79048: gap of unknown length
95469: contig of 16421 bp in length
95569: gap of unknown length
110400: contig of 14831 bp in length
110401: gap of unknown length
125387: contig of 14887 bp in length
125388 125487: gap of unknown length
125488 146498: contig of 21011 bp in length
146499 146598: gap of unknown length
168495: contig of 21897 bp in length.

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ORIGIN
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 30, 2005, 02:32:53 ; Search time 369 Seconds  
(without alignments)

5855.571 Million cell updates/sec

Title: US-08-731-499-9\_COPY\_10001\_10365

Perfect score: 365

Sequence: 1 TTTGTGCTCTCCAGGCTT.....GATGCACTCCACGCGTTG 365

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: Geneseqn1990s.\*
- 3: Geneseqn2000s.\*
- 4: Geneseqn2001as.\*
- 5: Geneseqn2001bs.\*
- 6: Geneseqn2002as.\*
- 7: Geneseqn2002bs.\*
- 8: Geneseqn2003as.\*
- 9: Geneseqn2003bs.\*
- 10: Geneseqn2003cs.\*
- 11: Geneseqn2003ds.\*
- 12: Geneseqn2004as.\*
- 13: Geneseqn2004bs.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	365	100.0	14906	4 AAK81093	AAK81093 Human imm
2	365	100.0	36022	11 ACN44986	Acn44986 Human gen
3	325.8	89.3	10282	2 AAV09023	AAV09023 Homo sapi
4	147.6	40.4	310268	13 ABD32548	ABD32548 Human can
C 5	147.2	40.3	50335	9 AAD58280	AAAD58280 Human tum
C 6	147.2	40.3	226475	9 AAD58279	AAAD58279 Human tum
C 7	146.6	40.2	1385	4 AAK70207	AAK70207 Human imm
C 8	146.6	40.2	1385	4 AAK78729	AAK78729 Human imm
9	145.8	39.9	110000	13 ABD32780_2	Continuation (3 of
10	145.2	39.8	3019	12 ADQ64936	Adq64936 Novel hum
11	145	39.7	10735	8 ABZ58995	ABZ58995 Human onc
C 12	143.6	39.3	11216	4 AAK88992	AAK88992 Human dig
C 13	143.6	39.3	11216	5 AAS39593	AAS39593 Genomic s
C 14	143.6	39.3	11216	9 ADB32553	ADB32553 Human nov
C 15	142.8	39.1	14540	4 AAK72853	AAK72853 Human imm
C 16	142.6	39.1	57502	12 ADQ97092	Adq97092 Human can
17	142.6	39.1	78082	12 ADQ97968	Adq97968 Human can
18	142.6	39.1	155937	12 ADQ19389	Adq19389 Human sof
C 19	142.4	39.0	1068	4 AAK78726	AAK78726 Human imm
20	142	38.9	14327	4 AAK79116	AAK79116 Human imm

21	142	38.9	14327	8 ABZ74029	Abz74029 Secreted
22	142	38.9	14327	8 ADA98634	Ada98634 Human sec
23	142	38.9	14327	10 ABT16938	Abt16938 Human sec
24	142	38.9	14327	10 ABZ67608	Abz67608 Human sec
C 25	141.8	38.8	17596	4 AAK72852	AAK72852 Human imm
26	140.8	38.6	84607	2 AAX90847	Aax90847 Human PAC
27	140.4	38.5	22930	4 AAK78545	Aak78545 Human imm
28	140.4	38.5	138363	13 ABD32624	ABD32624 Human can
29	140.2	38.4	27675	4 AAK85837	Aak85837 Human imm
C 30	140.2	38.4	169659	12 ADQ59434	Adq59434 Human can
31	140	38.4	2757	12 ADQ63687	Adq63687 Novel hum
32	140	38.4	14346	4 AAS32551	Aas32551 Human gen
C 33	140	38.4	20303	2 AAT71699	Aat71699 Human deo
C 34	140	38.4	26764	2 AAT71696	Aat71696 Human deo
35	140	38.4	26865	12 ADM97421	Adm97421 Prostata
C 36	140	38.4	34739	11 ACN45078	Acn45078 Human gen
37	140	38.4	171158	12 ADQ97894	Adq97894 Human can
C 38	139.8	38.3	5230	5 AAF73808	Aaf73808 Partial h
C 39	139.8	38.3	5230	10 ACC49356	Acc49356 Human 5HT
40	139.6	38.2	26928	5 ABA82620	Abas82620 Human HBM
41	139.6	38.2	26928	6 ABK22779	Abk22779 Human hig
42	139.6	38.2	26928	8 ACC45361	Acc45361 Human HBM
43	139.6	38.2	26928	10 ADB98061	Adb98061 HBM-relat
44	139.6	38.2	26928	10 ADB82430	Ade82430 Human DNA
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ALIGNMENTS

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AAK81093  
ID AAK81093 standard; DNA; 14906 BP.  
XX  
AC AAK81093;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:35905.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX cytosstatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
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Best Local Similarity 100.0%; Pred. No. 3.4e-88;  
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Db 6524 AGATTGAGTGCACGGGTAAATCATAGCTTACTGTAGTCTTTGAATTTCTGAGTTCAAGA 6583  
Qy 181 GATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 240  
Db 6584 GATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 6643  
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Db 6644 TGATTTTAAATTTTGTAGAGATGGAGTTGCCAGGCTGTCTTGAATCTCCTGGCC 6703  
Qy 301 TGAGGTGATCCTCTCGGTTGACCTCCCAAGTATCTTTAGACTACAGATGCACCTCCACC 360  
Db 6704 TGAGGTGATCCTCTCGGTTGACCTCCCAAGTATCTTTAGACTACAGATGCACCTCCACC 6763  
Qy 361 GCTTG 365  
Db 6764 GCTTG 6768

RESULT 2  
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ID ACN44986 standard; DNA; 36022 BP.  
XX AC ACN44986;  
XX AC  
XX 18-NOV-2004 (first entry)  
XX Human genomic sequence hCG37127.  
XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX Homo sapiens.  
XX WO2003073826-A2.  
XX 12-SEP-2003.  
XX 28-FEB-2003; 2003WO-US006235.  
XX 01-MAR-2002; 2002US-00087192.  
XX (SAGR-) SAGRES DISCOVERY.  
XX Morris DW;  
XX WPI; 2003-328604/31.  
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
XX comprises a nucleotide sequence.  
XX Claim 1; SEQ ID NO 1708; Opp; English.  
XX The present invention relates to novel DNA and protein sequences which  
XX are associated with carcinomas. The sequences are useful for: (i) for  
XX screening drug candidates; (ii) for screening of bioactive agent capable  
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
XX a bioactive agent capable of modulating the activity of CAP; (iv) for  
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating

CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
CC sequence. Note: This patent is an equivalent to basic patent  
CC US2002182586A1, for which no sequence data was published  
XX  
SQ Sequence 36022 BP; 9645 A; 7326 C; 8145 G; 10906 T; 0 U; 0 Other;  
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Best Local Similarity 100.0%; Pred. No. 4.4e-88;  
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 17651 AGATTGAGTGCACGGGTAAATCATAGCTTACTGTAGTCTTGAATTTCTGAGTTCAAGA 17710  
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Db 17711 GATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 17770  
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Db 17771 TGATTTTAAATTTTGTAGAGATGGAGTTGCCAGGCTGTCTTGAATCTCCTGGCC 17830  
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Qy 361 GCTTG 365  
Db 17891 GCTTG 17895

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AAV09023  
ID AAV09023 standard; DNA; 10282 BP.  
XX AC AAV09023;  
XX 21-JUL-1998 (first entry)  
XX Homo sapiens 20q13 amplicon ZABC-1 genomic sequence.  
XX 20q13 amplicon; chromosome 20; tumour; detection; ZABC-1 gene;  
XX chromosomal abnormalities; probe; gene therapy; antisense inhibition;  
XX treatment; age-related macular degeneration; retinitis pigmentation;  
XX Leber's congenital amaurosis; zinc finger amplified in breast cancer; ds.  
XX Homo sapiens.  
XX WO9802539-A1.  
XX 22-JAN-1998.  
XX 15-JUL-1997; 97WO-US012343.  
XX 15-JUL-1996; 96US-00680395.  
XX 16-OCT-1996; 96US-00731499.  
XX 17-JAN-1997; 97US-00785532.  
XX (REGC ) UNIV CALIFORNIA.  
XX Gray JW, Collins CC, Hwang S, Godfrey T, Kowbel D, Rommens J;  
PI

XX WPI; 1998-110587/10.  
DR P-PSDB; AAW23975.  
XX  
XX New sequences from the 20q13 amplicon - used for detecting chromosomal  
PT abnormalities, particularly tumours, and for developing products for  
PT treating diseases.  
XX  
XX Claim 1; Page 64-67; 9lpp; English.  
XX  
XX The sequence is that of the genomic sequence of ZABC-1 (zinc finger  
CC amplified in breast cancer). It maps to the core of the 20q13.2 amplicon  
CC and is overexpressed in primary tumours and breast cancer cell lines  
CC having 20q13.2 amplification. The exact coding region for the genomic  
CC detection is not given. The sequence can be used as a probe for the  
CC detection of chromosomal abnormalities at 20q13. It and other sequences  
CC isolated from the 20q13 amplicon are consistently amplified in primary  
CC tumours. These sequences are useful as probes or as probe targets for  
CC monitoring the relative copy number of corresponding sequences from a  
CC biological sample such as tumour cells. The sequences can also be used in  
CC therapeutic applications for modulating the expression of the endogenous  
CC gene or the activity of the gene product. Examples of therapeutic  
CC approaches include antisense inhibition of gene expression, gene therapy,  
CC and monoclonal antibodies that specifically bind the gene products. The  
CC products can also be used in the treatment of other diseases, e.g. age-  
CC related macular degeneration, Leber's congenital amaurosis and retinitis  
CC pigmentation  
XX  
SQ Sequence 10282 BP; 2820 A; 2222 C; 2191 G; 3047 T; 0 U; 2 Other;  
Query Match 89.3%; Score 325.8; DB 2; Length 10282;  
Best Local Similarity 95.1%; Pred. No. 1.2e-17; Mismatches 1; Gaps 1;  
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Qy 181 GATCCTTCTGCCCTCAGCTTCCCAGGTAGCTGAGACTATATGTCTGTACCATGCACAGC 240  
Db GATCCTTCTGCCCTCAGCTTCCCAGGTAGCTGAGACTATATGTCTGTACCATGCACAGC 10158  
Qy 241 TGATTTTAAATTTTGTGAGATGGAGTTGCCAGGCTGTCTTGAACCTCTGGCC 300  
Db TCATTTTAAA-TTTTGTGACAGATGGAGTTGCCAGGCTGTCTTGAACCTCTGGCC 10217  
Qy 301 TGAGGTGATCCTCTGCGTTGACTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 360  
Db TGAGGTGATCCTCTGCGTTGACTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 10277  
Qy 361 GCTTG 365  
Db GCTTG 10282

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ID ABD32548 standard; DNA; 310268 BP.  
XX  
XX ABD32548;  
AC  
XX 18-NOV-2004 (first entry)  
DT  
XX Human cancer-associated genomic DNA HD14-033.  
DE  
XX

Query Match 40.4%; Score 147.6; DB 13; Length 310268;  
Best Local Similarity 65.7%; Pred. No. 4.1e-29;  
Matches 234; Conservative 0; Mismatches 114; Indels 8; Gaps 1;  
Qy 18 CTTACTTAACCTGTGGGTTAACTCTTAACCTGTGTATTTTATTTCTTTGATTTGTTT 77  
Db 77830 CTTCTATAGCATTATGGAACAACACTCGAATACACTACGTCATTTATTCATCTTTT 77889

KW Human; ds; cancer-associated protein; gene; cytostatic; cancer;  
KW leukaemia; lymphoma; CAP.  
XX  
OS Homo sapiens.  
XX  
PN WO2004074320-A2.  
XX  
PD 02-SEP-2004.  
XX  
PF 17-FEB-2004; 2004WO-US004730.  
XX  
PR 14-FEB-2003; 2003US-00367094.  
PR 14-MAR-2003; 2003US-00388838.  
PR 15-APR-2003; 2003US-00417375.  
PR 13-JUN-2003; 2003US-00461862.  
PR 15-SEP-2003; 2003US-00663431.  
PR 15-DEC-2003; 2003US-00737318.  
XX (SAGR-) SAGRES DISCOVERY INC.  
PA  
XX Morris DW, Morris DW, Malandro MS;  
PI  
XX WPI; 2004-652914/63.  
DR  
XX New isolated cancer-associated polynucleotides and polypeptides useful  
PT for diagnosing, preventing or treating cancers, especially lymphoma and  
PT leukemia, or in screening for agents that modulate cancer.  
XX  
XX claim 16; seqid 24; 310pp; English.  
XX  
XX The invention relates to an isolated nucleic acid comprising at least 10  
CC contiguous nucleotides of any of the 233 polynucleotide sequences given  
CC in the specification, or its complement. The nucleic acids encode cancer-  
CC associated proteins. Also included are an expression vector comprising  
CC the isolated nucleic acid cited above, a host cell comprising the above  
CC recombinant nucleic acid or expression vector, a microarray for detecting  
CC a cancer-associated (CA) nucleic acid comprising at least one probe  
CC comprising at least 10 contiguous nucleotides of any of the above-  
CC mentioned nucleotide sequences, an isolated polypeptide (encoded within  
CC an open reading frame of a CA sequence selected from any of the 95  
CC polynucleotide sequences as mentioned in the specification, or its  
CC complement), an isolated antibody, (or its antigen binding fragment) that  
CC binds to the above polypeptide, a hybridoma that produces the above  
CC monoclonal antibody, a pharmaceutical composition comprising the above  
CC antibody and a pharmaceutical excipient, a kit for detecting cancer  
CC cells (comprising the antibody cited above, methods for diagnosing cancer  
CC or for detecting the presence or absence of cancer cells in an  
CC individual, a method for inhibiting growth of cancer cells in an  
CC individual, a method for delivering a therapeutic agent to cancer cells  
CC in an individual, an electronic library comprising the above  
CC polynucleotide or polypeptide (or their fragments), methods of screening  
CC for anticancer activity or for a bioactive agent capable of modulating  
CC the activity of a CA protein (CAP), methods for detecting cancer  
CC associated with expression of a polypeptide in a test cell sample, a  
CC method for treating cancers and a method for inhibiting the expression of  
CC CA gene in a cell. The composition and methods are useful for detecting,  
CC diagnosing, preventing and treating cancers, especially lymphoma and  
CC leukaemia. These may also be used in screening for agents that modulate  
CC cancer. The present sequence is a human CAP genomic sequence. Note: The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 310268 BP; 87522 A; 60932 C; 62901 G; 98913 T; 0 U; 0 Other;

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QY 78 AGTCTTACTTTATTTTATAGAGAAAGGGTCTTGCTCCGTCATCTAGATTGGAGTGCAGCG 137
Db 77890 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
QY 138 TGTAAATCATAGCTTACCTGAGTCTTGAATTCCTGAGTTCAAGAGATCCTTCTGCTCAGC 197
Db 77950 TGCAGTCTTGCTCAGTGCATCTTTCGATCCTCGGCTCAAGTGAATCTCGTGCCTCAGC 78009
QY 198 TTCCAGGTAGCTGAGACTATATGTCTGTCTACCATGCACAGCTGATTTTAAATTTTTT 257
Db 78010 CTCCCAAGTAGCTGAGATTACAGGTGCCACACCACTTCTCAGATAATTTTGTATTTTA 78069
QY 258 TTGTAGAGATGG-----AGTTGCCAGGCTGGTCTTGAACTCTGCTGGCTGAGGTGAT 309
Db 78070 CTAGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCTCGACCTCAAGTGA 78129
QY 310 CCTCTCGGTGACCTCCCAAGTATCTTAGACTACAGATGCATCCACCAACGCTTG 365
Db 78130 CCACCTGTCTTGGCTCTCCAAAGTGTGGGATTACAGGTGGCAACCACTGTGCTG 78185

RESULT 5
AAD58280/c
ID AAD58280 standard; DNA; 50335 BP.
XX AC
XX AAD58280;
XX DT
XX 20-NOV-2003 (first entry)
XX DE Human tumour suppressor gene, Lmt intron 1 DNA.
XX KW Tumour suppressor gene; Lmt; cancer; therapy; cytostatic; human; ds.
XX OS Homo sapiens.
XX PN WO2003066869-A1.
XX PD 14-AUG-2003.
XX PF 07-FEB-2003; 2003WO-AU000126.
XX PR 07-FEB-2002; 2002AU-00000371.
XX PA (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.
XX PI Cook WD, Mccaw BJ;
XX WPI; 2003-646311/61.
XX PT New nucleic acid molecule, useful for screening a subject for the
XX presence of an aberration in a gene encoding an LMT.
XX PS Claim 10; Page 299-314; 373pp; English.
XX CC The invention relates to novel tumour suppressor gene, referred to as
CC Lmt. The invention also relates to the field of cancer therapy and cancer
CC diagnostics. The nucleic acid molecule is useful for screening a subject
CC for the presence of an aberration in a gene encoding an LMT. The present
CC sequence is human Lmt intron 1 DNA
XX SQ Sequence 50335 BP; 15699 A; 9846 C; 9072 G; 14424 T; 0 U; 1294 Other;

Query Match 40.3%; Score 147.2; DB 9; Length 50335;
Best Local Similarity 74.5%; Pred. No. 3.1e-29;
Matches 213; Conservative 0; Mismatches 68; Indels 5; Gaps 2;

QY 75 TTTAGTCTTACTTTTATTTTATAGAGAAAGGGTCTTGCTCCGTCATCTAGATTGGAGTGCAG 134
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QY 135 CGGTGTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAAGAGATCCTTCTGCTC 194
Db 35828 TGGCATGATCATGCTCAGTGTAGCTCGACCTCTCGAGCTCAGGTGATCCTCCACCTC 35769

Query Match 40.3%; Score 147.2; DB 9; Length 50335;
Best Local Similarity 74.5%; Pred. No. 3.1e-29;
Matches 213; Conservative 0; Mismatches 68; Indels 5; Gaps 2;

QY 75 TTTAGTCTTACTTTTATTTTATAGAGAAAGGGTCTTGCTCCGTCATCTAGATTGGAGTGCAG 134
Db 211265 TCCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
QY 135 CGGTGTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAAGAGATCCTTCTGCTC 194
Db 211205 TGGCATGATCATGCTCAGTGTAGCTCGACCTCTCGAGCTCAGGTGATCCTCCACCTC 211146
QY 195 AGCTTCCAGGTAGCTGAGACTATATGTG-CTGCTACCATGCACAGCTGATTTTAAATT 253
Db 211145 AGCTTCCAGGTAGCTGGGACTATAGGAGTGTGCTACCATGCCTAGCTAATTTTAAATT 211086
QY 254 TTTTGTAGAGATGAGTGTGCCAGGCTGTGAACTCTCTGGCTGAGGTGATCCTC 313
Db 254 TTTTGTAGAGATGAGTGTGCCAGGCTGTGAACTCTCTGGCTGAGGTGATCCTC 313
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QY 195 AGCTTCCAGGTAGCTGAGACTATATGTG-CTGCTACCATGCACAGCTGATTTTAAATT 253
Db 35768 AGCTTCCAGGTAGCTGGGACTATAGGAGTGTGCTACCATGCCTAGCTAATTTTAAATT 35709
QY 254 TTTTGTAGAGATGAGTGTGCCAGGCTGTGAACTCTCTGGCTGAGGTGATCCTC 313
Db 35708 CTTTGTGTTT---GTTATGTTGCCAGGCTGTCTCGAACTCTCTGGGCTCAGGTGATCCAC 35653
QY 314 CTGCGTTGACCTCCCAAGTATCTTAGACTACAGATGCACATCCCAACCA 359
Db 35652 CCGCCTTGGCTCCCAAGTGTGAGATTACAGACGTGAGCCACCA 35607
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RESULT 6
AAD58279/c
ID AAD58279 standard; DNA; 226475 BP.
XX AC
XX AAD58279;
XX DT
XX 20-NOV-2003 (first entry)
XX DE Human tumour suppressor gene, Lmt reverse complement DNA.
XX KW Tumour suppressor gene; Lmt; cancer; therapy; cytostatic; human; ds.
XX OS Homo sapiens.
XX PN WO2003066869-A1.
XX PD 14-AUG-2003.
XX PF 07-FEB-2003; 2003WO-AU000126.
XX PR 07-FEB-2002; 2002AU-00000371.
XX PA (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.
XX PI Cook WD, Mccaw BJ;
XX WPI; 2003-646311/61.
XX PT New nucleic acid molecule, useful for screening a subject for the
XX presence of an aberration in a gene encoding an LMT.
XX PS Claim 10; Page 233-299; 373pp; English.
XX CC The invention relates to novel tumour suppressor gene, referred to as
CC Lmt. The invention also relates to the field of cancer therapy and cancer
CC diagnostics. The nucleic acid molecule is useful for screening a subject
CC for the presence of an aberration in a gene encoding an LMT. The present
CC sequence is human Lmt reverse complement DNA
XX SQ Sequence 226475 BP; 61024 A; 41761 C; 40916 G; 57494 T; 0 U; 25280 Other;
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Query Match 40.3%; Score 147.2; DB 9; Length 226475;
Best Local Similarity 74.5%; Pred. No. 4.8e-29;
Matches 213; Conservative 0; Mismatches 68; Indels 5; Gaps 2;

QY 75 TTTAGTCTTACTTTTATTTTATAGAGAAAGGGTCTTGCTCCGTCATCTAGATTGGAGTGCAG 134
Db 211265 TCCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
QY 135 CGGTGTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAAGAGATCCTTCTGCTC 194
Db 211205 TGGCATGATCATGCTCAGTGTAGCTCGACCTCTCGAGCTCAGGTGATCCTCCACCTC 211146
QY 195 AGCTTCCAGGTAGCTGAGACTATATGTG-CTGCTACCATGCACAGCTGATTTTAAATT 253
Db 211145 AGCTTCCAGGTAGCTGGGACTATAGGAGTGTGCTACCATGCCTAGCTAATTTTAAATT 211086
QY 254 TTTTGTAGAGATGAGTGTGCCAGGCTGTGAACTCTCTGGCTGAGGTGATCCTC 313
Db 254 TTTTGTAGAGATGAGTGTGCCAGGCTGTGAACTCTCTGGCTGAGGTGATCCTC 313
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Qy 352 CTCACACGCG 362
Db 779 AGCCACCATGC 769

RESULT 9
ABD32780_2
WP Continuation (3 of 5) of ABD32780 from base 200001 (Human cancer-associated genomic DNA
WP Sequence split into 5 fragments LOCUS ABD32780 Accession Abd32780
WP Fragment Name Begin End
WP ABD32780_0 1 110000
WP ABD32780_1 100001 210000
WP ABD32780_2 200001 310000
WP ABD32780_3 300001 410000
WP ABD32780_4 400001 430442

Query Match 39.9%; Score 145.8; DB 13; Length 110000;
Best Local Similarity 67.3%; Pred. No. 9.2e-29;
Matches 239; Conservative 0; Mismatches 107; Indels 9; Gaps 2;

Qy 19 TTACTTAACCTGTGGGTAACTCTTAACCTGTGTATTTTATCTTTTGATTGTTA 78
Db 21592 TCACCTATTTCTTTTGATGATTTATTTATTTATTTATTTATTTATTTATTT 21651

Qy 79 GTCTTACTTTATTTTAGAGAAAGGGTCTTGCTCCGTCATCTAGATTTGGAGTGCAGCGGT 138
Db 21652 ATTTTATTTATTTTGGAGACAGAGTCTGGCTGTGTCAACCAGGCTGGAGTGCAGTGGC 21711

Qy 139 GTATCATACCTTACTGTAGTCTTGAATTCCTGAGTTCAAGAGATCCTTCTGCTCAGCT 198
Db 21712 ACGATCTCGGCTCGCTCAACCTCTGCCTCTCGGGTTCAAGTGAATTCCTGCTCAGCC 21771

Qy 199 TCCAGGTAGCTGAGACTATATGTGCTGTACCATGACACAGCTGATTTTAAATTTTTT 258
Db 21772 TCCAGGTAGCTGGATTACAAGCACT-CCACACAGCCGAGCTAATTTTGTATTTTAG 21830

Qy 259 TGTAGAGATGG-----AGTTGCCCAGGCTGTCTTTGAACCTCTGGCCTGAGGTGATC 310
Db 21831 TGGAGATGGGTTTCACTATGTTGGCCAGGCTGTGTTGGAACTCTCTGGCCTCAGTGATC 21890

Qy 311 CTCTGGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACATCCACACGCTTG 365
Db 21891 CACCTGCTTTGGCTCCCAAAGTCTGGGATTACAGGTGTGAGCCACCGCACCTG 21945

RESULT 10
ADQ64936
ID ADQ64936 standard; cDNA; 3019 BP.
XX AC ADQ64936;
XX DT 07-OCT-2004 (first entry)
XX DE Novel human cDNA sequence #2097.
XX ss; gene; osteopathic; neuroprotective; nootropic; antiparkinsonian;
XX cytostatic; gene therapy; diagnostic marker; morbid state; osteoporosis;
XX neurological disease; Alzheimer's disease; Parkinson's disease; dementia;
XX cancer.
XX OS Homo sapiens.
XX PN EPI440981-A2.
XX PD 28-JUL-2004.
XX 21-JAN-2004; 2004EP-00001196.
XX 21-JAN-2003; 2003JP-00102206.
XX 09-MAY-2003; 2003JP-00131392.
XX (REAS-) RES ASSOC BIOTECHNOLOGY.
XX
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PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Nagai K, Irie R;
DR WPI: 2004-535376/52.
DR P-PSDB; ADQ67124.
XX Novel 2495 cDNA, useful for treating osteoporosis, neurological diseases,
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.
XX Claim 1; SEQ ID NO 2097; 2449pp; English.
XX The invention relates to 2495 novel polynucleotides (I) and their encoded
CC polypeptides, sequences hybridizing to these nucleotides, sequences
CC encoding partial polypeptides and sequences having 70% or 90% identity to
CC the nucleotide and protein sequences. The nucleotides and polypeptides
CC are useful as diagnostic markers or therapeutic target for the diseases
CC or morbid states. They are also useful for treating osteoporosis,
CC neurological diseases, Alzheimer's diseases, Parkinson's diseases,
CC dementia and various cancers. This sequence corresponds to a nucleotide
CC sequence of the invention.
XX SQ Sequence 3019 BP; 833 A; 670 C; 785 G; 731 T; 0 U; 0 Other;

Query Match 39.8%; Score 145.2; DB 12; Length 3019;
Best Local Similarity 71.8%; Pred. No. 4.7e-29;
Matches 221; Conservative 0; Mismatches 78; Indels 9; Gaps 2;

Qy 64 CTTTTCGATTTGTTTGTCTTACTTATTTTATAGAGAAAGGCTTGTCTCGTCACTAGA 123
Db 1066 CTTGTTTTCTTTTCTTTCTTTTCTTTTGGAGACAGGCTCTACTCTGTTATCCAG 1125

Qy 124 TTGGAGTCGAGCGGTGTAATCATAGCTTACTGTAGTCTTTGAATTCCTGAGTTCAAGAGAT 183
Db 1126 CTGGAGTCGAGTGGCATGATCAGAGCTCACTGCAGCCTTGACTTCTTGGGTTCAGGTAT 1185

Qy 184 CTTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATG-TGCTGTCTACCATGCACAGCTG 242
Db 1186 CTTCCACCTCAGTCTCTGAGTAGCTGGGACTACAGGCATGTACCACCATGCTCAGCTA 1245

Qy 243 ATTTTAAATTTTTTTTGTAGAGATG-----AGTTGCCCAGGCTGTCTTTGAACCTC 294
Db 1246 ATCTTAAATTTTTTTGTAGAGACAGGCTCTCACTTTGTGCCAGGCTGTCTTTGAACCTC 1305

Qy 295 CTGGCCTCAGGTCATCTCTGCTGTTGACCTCCCAAGTATCTTTAGACTACAGATGCACCTC 354
Db 1306 CTGAGTTCAGTGATTTCTCTGCTTGACCTCCCAAGTCTGGGATTACAGGTGTGAGC 1365

Qy 355 CACCACGC 362
Db 1366 CACCACAC 1373

RESULT 11
ABZ58995
ID ABZ58995 standard; DNA; 10735 BP.
XX AC ABZ58995;
XX DT 28-APR-2003 (first entry)
XX DE Human oncosuppressive gene (DRAGO) fragment.
XX KW Oncosuppressive; apoptotic; p53; p73; cytostatic; gene therapy; tumour;
XX DRAGO; human; gene; ds.
XX OS Homo sapiens.
XX PN WO2003006498-A2.
XX PD 23-JAN-2003.
XX 09-JUL-2002; 2002WO-EP007625.
XX
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PR	10-JUL-2001; 2001IT-MI001465.	PR	31-JAN-2000; 2000US-0179065P.
XX		PR	04-FEB-2000; 2000US-0180628P.
PA	(NOVU-) NOVUSPHARMA SPA.	PR	24-FEB-2000; 2000US-0184664P.
XX		PR	02-MAR-2000; 2000US-0186350P.
PI	Broggini M, D'incalci M;	PR	16-MAR-2000; 2000US-0189874P.
XX		PR	17-MAR-2000; 2000US-0190076P.
DR	WPI; 2003-221715/21.	PR	18-APR-2000; 2000US-0198123P.
XX		PR	19-MAY-2000; 2000US-0205515P.
PT	New oncosuppressive polypeptide, useful for preparing a medicament for	PR	07-JUN-2000; 2000US-0209467P.
PT	treating tumors.	PR	28-JUN-2000; 2000US-0214886P.
XX		PR	30-JUN-2000; 2000US-0215135P.
PS	Claim 3; Page 34-37; 42pp; English.	PR	07-JUL-2000; 2000US-0216647P.
XX		PR	07-JUL-2000; 2000US-0216880P.
CC	The invention relates to oncosuppressive polypeptides and encoding	PR	11-JUL-2000; 2000US-0217487P.
CC	polynucleotides. The oncosuppressive gene is involved in apoptotic	PR	11-JUL-2000; 2000US-0217496P.
CC	process and is regulated by p53 and p73. The oncosuppressive	PR	14-JUL-2000; 2000US-0218290P.
CC	polynucleotides are useful for preparing a medicament for treating	PR	26-JUL-2000; 2000US-0220963P.
CC	tumour. The present sequence represents a human oncosuppressive gene	PR	26-JUL-2000; 2000US-0220964P.
CC	(DRAGO) fragment, located upstream of the first exon	PR	14-AUG-2000; 2000US-0224518P.
XX		PR	14-AUG-2000; 2000US-0224519P.
SQ	Sequence 10735 BP; 2720 A; 2485 C; 2630 G; 2900 T; 0 U; 0 Other;	PR	14-AUG-2000; 2000US-0225213P.
		PR	14-AUG-2000; 2000US-0225214P.
	Query Match 39.7%; Score 145; DB 8; Length 10735;	PR	14-AUG-2000; 2000US-0225266P.
	Best Local Similarity 67.8%; Pred. No. 7.7e-29;	PR	14-AUG-2000; 2000US-0225267P.
	Matches 234; Conservative 0; Mismatches 105; Indels 6; Gaps 2;	PR	14-AUG-2000; 2000US-0225268P.
QY	19 TTACTTAACCTCTGGGTTTAACCTTAAACCCCTGTGTATTTTATCTTTTGATTTGTTTA 78	PR	14-AUG-2000; 2000US-0225270P.
Db		PR	14-AUG-2000; 2000US-0225447P.
	329 TTACTTTAACAACTATAAATTAAATTTTACATATATATAATTTTAAATTTTAA 388	PR	14-AUG-2000; 2000US-0225757P.
QY	79 GTCTTACTTTATTTTAGAAAGGGCTTGCTCCGTCATCTAGATTGGAGTCACGGGT 138	PR	14-AUG-2000; 2000US-0225758P.
Db		PR	14-AUG-2000; 2000US-0225759P.
	389 TTTTITGGTTTTTTTGACAGAGACGCTTGCTCTGTACCTAAGCTGGAGTGTAGTGGC 448	PR	18-AUG-2000; 2000US-0226279P.
QY	139 GTAATCATAGCTTACTGTAGTCTTGAATTCCTCAGTTCAAGAGATCCTCTGCCTCAGCT 198	PR	22-AUG-2000; 2000US-0226681P.
Db		PR	22-AUG-2000; 2000US-0227182P.
	449 ACAATCACAGCTTACTTGTAGCTCTGACCTCCGAGCTCAATAATCTCCACCTCAGCC 508	PR	23-AUG-2000; 2000US-0227009P.
QY	199 TCCAGGTAGCTGAGACTATATGTG-CTGTATCAATGCACAGCTGATTTTAAATTTTT 257	PR	30-AUG-2000; 2000US-0228924P.
Db		PR	01-SEP-2000; 2000US-0229287P.
	509 TCCTGAGTAGTGGGACCAACAGGCGTGTGCCACATGCCCTGGCTAAATTTTGTATTTTT 568	PR	01-SEP-2000; 2000US-0229343P.
QY	258 TTGTAGAG-----ATGGAGTTGCCAGGCTGTGTTGAACTCCTGGCTGATCCT 312	PR	01-SEP-2000; 2000US-0229344P.
Db		PR	01-SEP-2000; 2000US-0229345P.
	569 GTAAAGAGGTCCTCACTCTGTGTGCCAGGCTGGTCTCAAACTCTGAGCTCAAGTGATCCT 628	PR	05-SEP-2000; 2000US-0229509P.
QY	313 CCTGCGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCAC 357	PR	05-SEP-2000; 2000US-0229513P.
Db		PR	06-SEP-2000; 2000US-0230437P.
	629 CTGTCTTGGCTTCCCAAGTGTGGGATTACAGGCGTGAGCCAC 673	PR	06-SEP-2000; 2000US-0230438P.
		PR	08-SEP-2000; 2000US-0231242P.
		PR	08-SEP-2000; 2000US-0231243P.
		PR	08-SEP-2000; 2000US-0231244P.
		PR	08-SEP-2000; 2000US-0231413P.
		PR	08-SEP-2000; 2000US-0231414P.
		PR	08-SEP-2000; 2000US-0232080P.
		PR	08-SEP-2000; 2000US-0232081P.
		PR	12-SEP-2000; 2000US-0231968P.
		PR	14-SEP-2000; 2000US-0233063P.
		PR	14-SEP-2000; 2000US-0233064P.
		PR	14-SEP-2000; 2000US-0233065P.
		PR	21-SEP-2000; 2000US-0234223P.
		PR	21-SEP-2000; 2000US-0234274P.
		PR	25-SEP-2000; 2000US-0234997P.
		PR	25-SEP-2000; 2000US-0234998P.
		PR	26-SEP-2000; 2000US-0235484P.
		PR	27-SEP-2000; 2000US-0235834P.
		PR	27-SEP-2000; 2000US-0235836P.
		PR	29-SEP-2000; 2000US-0236327P.
		PR	29-SEP-2000; 2000US-0236367P.
		PR	29-SEP-2000; 2000US-0236368P.
		PR	29-SEP-2000; 2000US-0236369P.
		PR	29-SEP-2000; 2000US-0236370P.
		PR	02-OCT-2000; 2000US-0236802P.

RESULT 12  
AAK8892/c  
ID AAK88992 standard; DNA; 11216 BP.  
XX  
AC AAK88992;  
XX  
XX  
DT 05-NOV-2001 (first entry)  
XX  
DE Human digestive system antigen genomic sequence SEQ ID NO: 2568.  
XX  
KW Human; digestive system antigen; gene therapy; cancer; appendicitis;  
KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;  
KW digestive system disorder; Meckel's diverticulum; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200155314-A2.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001324.  
XX



PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.

PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 01-NOV-2000; 2000US-0244826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249267P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.

(HUMA-) HUMAN GENOME SCI INC.

PI Rosen CA, Barash SC, Ruben SM;

XX WPI; 2001-465567/50.

XX Isolated polypeptide for treating, preventing and/ or prognosing disorders related to the colon including colon cancers and also for testing and detection e.g. diagnosis.

XX Disclosure; SEQ ID NO 490; 562pp; English.

XX The present invention relates to the isolation of novel human colon associated polypeptides (AAU22468-AAU22701), and the cDNA and genomic sequences encoding for them. The sequences of the invention are useful in the diagnosis, treatment, prevention and/or prognosis of disorders of the colon including colon cancer, congenital abnormalities (e.g. atresia and stenosis), bacterial and viral infections, inflammatory bowel disease (IBD), neoplastic cell disorders (e.g. polyps and adenomas, intestinal inflammatory disorders, colitis, colonic inflammation, diarrhoea and

PR	26-JUL-2000;	2000US-02209644	PR
PR	14-AUG-2000;	2000US-0224518P	PR
PR	14-AUG-2000;	2000US-0224519P	PR
PR	14-AUG-2000;	2000US-0225213P	PR
PR	14-AUG-2000;	2000US-0225214P	PR
PR	14-AUG-2000;	2000US-02252566P	PR
PR	14-AUG-2000;	2000US-02252567P	PR
PR	14-AUG-2000;	2000US-02252568P	PR
PR	14-AUG-2000;	2000US-0225270P	PR
PR	14-AUG-2000;	2000US-0225447P	PR
PR	14-AUG-2000;	2000US-0225757P	PR
PR	14-AUG-2000;	2000US-0225758P	PR
PR	14-AUG-2000;	2000US-0225759P	PR
PR	18-AUG-2000;	2000US-0226279P	PR
PR	22-AUG-2000;	2000US-0226681P	PR
PR	22-AUG-2000;	2000US-0226868P	PR
PR	23-AUG-2000;	2000US-0227182P	PR
PR	30-AUG-2000;	2000US-0227009P	PR
PR	30-AUG-2000;	2000US-0228282P	PR
PR	01-SEP-2000;	2000US-0229287P	PR
PR	01-SEP-2000;	2000US-022929343P	PR
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PR	08-SEP-2000;	2000US-0231243P	PR
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PR	12-SEP-2000;	2000US-0231968P	PR
PR	14-SEP-2000;	2000US-0232397P	PR
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PR	21-SEP-2000;	2000US-0234223P	PR
PR	21-SEP-2000;	2000US-0234274P	PR
PR	25-SEP-2000;	2000US-0234997P	PR
PR	25-SEP-2000;	2000US-0234998P	PR
PR	26-SEP-2000;	2000US-0235484P	PR
PR	27-SEP-2000;	2000US-0235834P	PR
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PR	29-SEP-2000;	2000US-0236368P	PR
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PR	03-OCT-2000;	2000US-0239935P	PR
PR	13-OCT-2000;	2000US-0239937P	PR
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PR	20-OCT-2000;	2000US-0240960P	PR
PR	20-OCT-2000;	2000US-0241809P	PR
PR	20-OCT-2000;	2000US-0241826P	PR
PR	01-NOV-2000;	2000US-0244617P	PR
PR	08-NOV-2000;	2000US-0246475P	PR
PR	08-NOV-2000;	2000US-0246476P	PR
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Qy 102 GGGTCTTGCTCCGTCATCTAGATTGGAGTGCAGGGGTGTAATCATAGCTTACTGTAGTCT 161  
Db 12132 GAGTCTTGCTCTGTTCACATAGGCTGGAGTCAATTGGCGGATCTCAGCTCACTGCAACCT 12073  
Qy 162 TGAATTCCCTGAGTTCAAGAGATCCTCTGCTCAGCTTCCAGGTAGCTGAGACTATATG 221  
Db 12072 CCACCTCCTGGGTTCAAGAGATTCTCTGCTCAGCTCCGGAGTAGCTGGGATTTACAGG 12013  
Qy 222 TGCTGTACCATGCACAGCTGAATTTTAAATTTTTTTGTAGAGATGG-----AGTT 273  
Db 12012 TGCCACCACCACGCCCAGCTAATTTTTTATTTTATTTAGTAGAGAGCGGGTTTCACCATGTT 11953  
Qy 274 GCCCAGGCTGGTCTTGAACTCCTGGCCTGAGGTGATCCTCCTGCGTTGACCTCCCAAGTA 333  
Db 11952 GGCACGGCTGGTCTCAAACTCCTGACCTCAAGTGATGCCCCACCTTGGCCTCCCAAAGT 11893  
Qy 334 TCTTAGACTACAGATGCACCTCCACCAGGCTTG 365  
Db 11892 GCTGGGATTACAGCGGTGAGGCACCTTGCCTGG 11861

Search completed: August 30, 2005, 04:04:03  
Job time : 374 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 30, 2005, 03:39:08 ; Search time 136 Seconds  
(without alignments)  
4391.478 Million cell updates/sec

Title: US-08-731-499-9\_copy\_10001\_10365

Perfect score: 365

Sequence: 1 TTTTGGTCTCTCCAGGCTT.....GATGCACTCCACACGCTTG 365

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*

2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*

3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/backfilesi.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	365	100.0	10365	4	US-08-892-695-9
2	365	100.0	20022	4	US-09-949-016-12604
3	365	100.0	20023	4	US-09-949-016-16004
4	149.2	40.9	38538	4	US-09-949-016-13150
5	146.8	40.2	197131	4	US-09-949-016-12675
6	146.8	40.2	197132	4	US-09-949-016-17170
c 7	145.2	39.8	22010	4	US-09-949-016-15960
8	144.8	39.7	601	4	US-09-949-016-51283
9	144.8	39.7	52971	4	US-09-949-016-16452
10	144.8	39.7	73295	4	US-09-949-016-15151
c 11	144.8	39.7	121427	4	US-09-949-016-11950
c 12	144.8	39.7	121433	4	US-09-949-016-13230
c 13	144.4	39.6	25736	4	US-09-949-016-15090
c 14	144.4	39.6	25755	4	US-09-949-016-12351
c 15	144.2	39.5	601	4	US-09-949-016-121870
c 16	143	39.2	33392	4	US-09-949-016-15172
17	142.4	39.0	24665	4	US-09-949-016-17134
18	142.2	39.0	36759	4	US-09-949-016-12216
19	142.2	39.0	36760	4	US-09-949-016-14021
c 20	142	38.9	601	4	US-09-949-016-157469
c 21	142	38.9	601	4	US-09-949-016-157576
c 22	142	38.9	87734	4	US-09-949-016-17521
c 23	141	38.6	126254	4	US-09-949-016-15341
c 24	141	38.6	235452	4	US-09-949-016-13675
c 25	140.8	38.6	601	4	US-09-949-016-141029
c 26	140.8	38.6	601	4	US-09-949-016-141030
c 27	140.8	38.6	601	4	US-09-949-016-157470

c 28	140.8	38.6	601	4	US-09-949-016-157577
c 29	140.8	38.6	126176	4	US-09-949-016-16137
c 30	140.8	38.6	126176	4	US-09-949-016-16138
c 31	140.4	38.5	601	4	US-09-949-016-121481
c 32	140.4	38.5	601	4	US-09-949-016-157471
c 33	140.4	38.5	601	4	US-09-949-016-157578
c 34	140.4	38.5	19253	4	US-09-949-016-15131
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38	140.2	38.4	601	4	US-09-949-016-89677
39	140.2	38.4	601	4	US-09-949-016-89688
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c 41	140.2	38.4	152583	4	US-09-949-016-17390
c 42	140.2	38.4	152583	4	US-09-949-016-17391
c 43	140	38.4	20303	1	US-08-370-9758-6
c 44	140	38.4	26764	1	US-08-370-9758-1
c 45	139.8	38.3	601	4	US-09-949-016-89656

ALIGNMENTS

RESULT 1

US-08-892-695-9  
; Sequence 9, Application US/08892695A  
; Patent No. 6808878  
; GENERAL INFORMATION:  
; APPLICANT: Gray, Joe W  
; APPLICANT: Collins, Collin  
; APPLICANT: Hwang, Soo In  
; APPLICANT: Godfrey, Tony  
; APPLICANT: Kowel, David  
; APPLICANT: Rommens, Johanna  
; TITLE OF INVENTION: GENES FROM THE 20Q13 AMPLICON AND THEIR USES  
; FILE REFERENCE: 2500.124US3  
; CURRENT APPLICATION NUMBER: US/08/892,695A  
; CURRENT FILING DATE: 1997-07-15  
; EARLIER APPLICATION NUMBER: 08/785,532  
; EARLIER FILING DATE: 1997-01-17  
; EARLIER APPLICATION NUMBER: 08/731,499  
; EARLIER FILING DATE: 1996-10-16  
; EARLIER APPLICATION NUMBER: 08/680,395  
; EARLIER FILING DATE: 1996-07-15  
; NUMBER OF SEQ ID NOS: 59  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 9  
; LENGTH: 10365  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Genomic  
; OTHER INFORMATION: Sequence encoding ZABC1  
; Patent No. 6808878  
US-08-892-695-9

Query Match	100.0%;	Score 365;	DB 4;	Length 10365;
Best Local Similarity	100.0%;	Pred. No. 1.1e-100;		
Matches 365;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	TTTGTGGTCTCCAAAGCTTACTTAACTCTGTGGGTTAACTCTTAAACCCGTGTGTAATTT	60	
Db	10001	TTTGTGGTCTCCAAAGCTTACTTAACTCTGTGGGTTAACTCTTAAACCCGTGTGTAATTT	1006	
Qy	61	ATTCTTTTGATTTGTTTAGTCTTACTTTATTTTAGAGAAAGGCTCTTGCTCCGTCATCT	120	
Db	10061	ATTCTTTTGATTTGTTTAGTCTTACTTTATTTTAGAGAAAGGCTCTTGCTCCGTCATCT	1012	
Qy	121	AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTCAAATTCCTGAGTTCAAGA	180	
Db	10121	AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTCAAATTCCTGAGTTCAAGA	1018	
Qy	181	GATCCTTCTTGCCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTGCATCCATGCACAGC	240	

Db 10181 GATCCTTCTCCCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 10240  
Qy 241 TGATTTTAAATTTTTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTGAACCTCTGGCC 300  
Db 10241 TGATTTTAAATTTTTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTGAACCTCTGGCC 10300  
Qy 301 TGAGGTGATCCTCTCGTGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 360  
Db 10301 TGAGGTGATCCTCTCGTGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 10360  
Qy 361 GCTTG 365  
Db 10361 GCTTG 10365

## RESULT 2

US-09-949-016-12604  
; Sequence 12604, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12604  
; LENGTH: 20022  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-12604

Query Match 100.0%; Score 365; DB 4; Length 20022;  
Best Local Similarity 100.0%; Pred. No. 1.5e-100;  
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TTTGTGCTCTCCAAGGCTTACTTAACTCTGTGGGTTTAACTCTTAAACCCCTGTGATTTT 60  
Db 9531 TTTGTGCTCTCCAAGGCTTACTTAACTCTGTGGGTTTAACTCTTAAACCCCTGTGATTTT 9590  
Qy 61 ATTCTTTTGAATTTGTTTGTAGTCTTACTTTATTTTGTAGAGAAAGGCTTGTCTCCGTCATCT 120  
Db 9591 ATTCTTTTGAATTTGTTTGTAGTCTTACTTTATTTTGTAGAGAAAGGCTTGTCTCCGTCATCT 9650  
Qy 121 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTTCTCGAGTTCAGA 180  
Db 9651 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTTCTCGAGTTCAGA 9710  
Qy 181 GATCCTTCTCCCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 240  
Db 9711 GATCCTTCTCCCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 9770  
Qy 241 TGATTTTAAATTTTTTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTGAACCTCTGGCC 300  
Db 9771 TGATTTTAAATTTTTTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTGAACCTCTGGCC 9830  
Qy 301 TGAGGTGATCCTCTCGTGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 360  
Db 9831 TGAGGTGATCCTCTCGTGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 9890  
Qy 361 GCTTG 365  
Db 9891 GCTTG 9895

## RESULT 3

US-09-949-016-16004  
; Sequence 16004, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16004  
; LENGTH: 20023  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-16004

Query Match 100.0%; Score 365; DB 4; Length 20023;  
Best Local Similarity 100.0%; Pred. No. 1.5e-100;  
Matches 365; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TTTGTGCTCTCCAAGGCTTACTTAACTCTGTGGGTTTAACTCTTAAACCCCTGTGATTTT 60  
Db 9531 TTTGTGCTCTCCAAGGCTTACTTAACTCTGTGGGTTTAACTCTTAAACCCCTGTGATTTT 9590  
Qy 61 ATTCTTTTGAATTTGTTTGTAGTCTTACTTTATTTTGTAGAGAAAGGCTTGTCTCCGTCATCT 120  
Db 9591 ATTCTTTTGAATTTGTTTGTAGTCTTACTTTATTTTGTAGAGAAAGGCTTGTCTCCGTCATCT 9650  
Qy 121 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTTCTCGAGTTCAGA 180  
Db 9651 AGATTGGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATTTCTCGAGTTCAGA 9710  
Qy 181 GATCCTTCTCCCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 240  
Db 9711 GATCCTTCTCCCTCAGCTTCCAGGTAGCTGAGACTATATGTGCTGTACCATGCACAGC 9770  
Qy 241 TGATTTTAAATTTTTTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTGAACCTCTGGCC 300  
Db 9771 TGATTTTAAATTTTTTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTGAACCTCTGGCC 9830  
Qy 301 TGAGGTGATCCTCTCGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 360  
Db 9831 TGAGGTGATCCTCTCGGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCAC 9890  
Qy 361 GCTTG 365  
Db 9891 GCTTG 9895

## RESULT 4

US-09-949-016-13150  
; Sequence 13150, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768

Query Match	40.2%;	Score 146.8;	DB 4;	Length 197131;
Best Local Similarity	69.6%;			
Matches 231;	Conservative	0;	Mismatches 92;	Indels 9;
Gaps 2;				



Query Match	39.7%;	Score 144.8;	DB 4;	Length 52971;
Best Local Similarity	70.2%;	Pred. No. 2e-33;		
Matches 212;	Conservative 0;	Mismatches 82;	Indels 8;	Gaps 1;

Qy	72	TTGTTTAGTCTTACTTTATTTTATAGAAAAGGCTCTGCTCCGTCATCTAGATTGGAGTG	131
Db	21346	TTTTTTTTTTTTTTTTTTTTTTTTTTTGAGTTGGAGTCTCGCTGTGTGCGCTAGGCTGGAGTG	21405

Qy	132	CAGCGGTGTAATCATAGCTTACTGTAGTCTTGAAATTCCTGAGTTCAAAGAGATCCCTTCTGC	191
Db	21406	CAGCAGGCAATCTTAGCTCACTGCAGCCTCCACCTCTCTGGGTTCAAACAATTTCTCTGC	21465

Qy	192	CTCAGCTTCCAGGTTAGCTGAGACTATATGTGCTGTACCATGCA CAGCTGATTTTTTAAA	251
Db	21466	CTCAGCTCCCAAGTAGTGGGACTACAGGCTGTGCCATACCCAGCTAATTTTTTATG	21525

Qy	252	TTTTTTTTTTGAGAGATGG-----AGTTGCCAGGCTGTGAACTCCTGSCCTGA	303
Db	21526	TTTTTAGTAGAGACAGGGTTTTTGCCATGTTGTCCAGGCTGGTCTTGAATCCTTGACCTCA	21585

Qy	304	GGTGATCCTCTCCGTTGACCTCCCAAGTATCTTAGACTACAGATGCACTCCACCAAGCT	363
Db	21586	AGTGATCCACTGTCTCCACCTCCCAAGTGTGGATTCAGACGTGGGCCACCATCCC	21645

Qy	364	TG 365	
Db	21646	TG 21647	

RESULT 10

US-09-949-016-15151

Sequence 15151, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 15151

LENGTH: 73295

TYPE: DNA

ORGANISM: Human

FEATURE:

NAME/KEY: misc\_feature

LOCATION: (1)...(73295)

OTHER INFORMATION: n = A,T,C or G

US-09-949-016-15151

Query Match	39.7%;	Score 144.8;	DB 4;	Length 73295;
Best Local Similarity	72.8%;	Pred. No. 2.4e-33;		
Matches 217;	Conservative 0;	Mismatches 72;	Indels 9;	Gaps 2;

Qy	75	TTTAGTCTTACTTTATTTTATAGAAAAGGCTCTGCTCCGTCATCTAGATTGGAGTGAG	134
Db	49031	TTGTTTTTTTTTTTTTTTTTTTGAGACAGGCTCTTACTGTGCCACAGTGGAGTGAG	49090

Qy	135	CGGTGTAATCATAGCTTACTGTAGTCTTGAAATTCCTGAGTTCAAAGAGATCCCTTCTGCCTC	194
Db	49091	TGSCACAAATAGTCTACTGTAGCCTTGACCGCCAGGCTCAGACATTCTCCACCCC	49150

Qy	195	AGCTTCCCAGGTAGCTGAGACTATATGTG-CTGCTACCAATGCA CAGCTGATTTTTTAAAT	253
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Db 49151 AGCTCCCAAGTAGCTGGGACTACAGGTGTGTGCCACCATGCCAGCTAAATTTTGTATT 49210

Qy 254 TTTTGTGTAGATGG-----AGTTGCCAGGCTGGTCTTGAACCTCTGGGCTGAGG 305

Db 49211 TTTTGTAGAAACAAGGTTTCCCATGTGTGCCAGGCTGGTCTTGAACCTCTGGGACAGG 49270

Qy 306 TGATCCTCTGGTGTGACCTCCCAAGTATCTTAGACTACAGATGCATCCACCAAGCT 363

Db 49271 GGATCTGCCTGCTGGGCTCCCAAGTGTGGGATTACAGATGGAGCCACCACT 49328

RESULT 11

US-09-949-016-11950/c

; Sequence 11950, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CLO01307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11950

; LENGTH: 121427

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-11950

Query Match 39.7%; Score 144.8; DB 4; Length 121427;

Best Local Similarity 67.2%; Pred. No. 3e-33;

Matches 238; Conservative 0; Mismatches 107; Indels 9; Gaps 2;

Qy 20 TACTTAACCTCTGTGGGTTTAACTCTTAACCCCTGTGTATTTTATTTCTTTTGATTTCTTTAG 79

Db 33363 TACTAAATACACTCTTTCTTATGCAAACTAGTATTTCAAAATATACAGATTTCTTTTC 33304

Qy 80 TCTTACTTTATTTTAGAAGAAGGCTCTTGCTCCGTCACTAGATTTGGAGTCAGCGGTG 139

Db 33303 TTTTCTTTTCTTTTGTAGACAGAGTCTCACTCTGTCTATCAGGCTGGAGTCAGTCGCG 33244

Qy 140 TAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTTCAAGAGATCTTCTGCTCAGCTT 199

Db 33243 TGATCTTGGCTCACTGCAACCTTTTGGCTCTCTGGGTTCAAGTGAATTCCTGCTCAGCT 33184

Qy 200 CCCAGGTAGCTGAGACTATATGTG-CTGCTACCATGCACAGCTGATTTTAAATTTTTT 258

Db 33183 CCCGAGTAGCTGAGATTACAGGTGCCACCACTGCCCGGCTAAATTTTGTATTTTGTAG 33124

Qy 259 TGTAGAGATGG-----AGTTGCCAGGCTGGTCTTGAACCTCTGGCCTCAGGTATC 310

Db 33123 TAAAGACGGGTTTCAACATGTTGCCAGGCTGGTCTTGAACCTCTGACCTCAAGTATC 33064

Qy 311 CTCTCTGGTGAAGCTCCCAAGTATCTTAGACTACAGATGCACTCCACCAAGCTT 364

Db 33063 CGCCCGCTCGGCCTCCCAAGTGTGGGATTACAGGATGAACCAACCAAGCTT 33010

RESULT 12

US-09-949-016-13230/c

; Sequence 13230, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF







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OM nucleic - nucleic search, using sw model

Run on: August 30, 2005, 03:59:23 ; Search time 462 Seconds  
(without alignments)  
5169.324 Million cell updates/sec

Title: US-08-731-499-9\_COPY\_10001\_10365

Perfect score: 365

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 7331713 seqs, 327154945 residues

Total number of hits satisfying chosen parameters: 14663426

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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26: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	365	100.0	10365	8	US-08-731-499-9 Sequence 9, Appli
2	365	100.0	36022	13	US-10-087-192-1708 Sequence 1708, Ap
3	147.6	40.4	301692	17	US-10-428-487-11 Sequence 11, Appl
4	147.6	40.4	310268	19	US-10-367-094-195 Sequence 195, App
5	147.2	40.3	414295	20	US-10-719-993-6876 Sequence 6876, Ap
6	146.8	40.2	209822	21	US-10-741-600-17560 Sequence 17560, A
7	145.8	39.9	430442	20	US-10-417-375-128 Sequence 128, App

c 8	145.4	39.8	437	13	US-10-027-632-46474	Sequence 46474, A
c 9	145.4	39.8	437	13	US-10-027-632-46475	Sequence 46475, A
c 10	145.4	39.8	437	17	US-10-027-632-46474	Sequence 46474, A
c 11	145.4	39.8	437	17	US-10-027-632-46475	Sequence 46475, A
c 12	145	39.7	10735	20	US-10-483-241-5	Sequence 5, Appli
c 13	144.6	39.6	399	19	US-10-674-124A-25157	Sequence 25157, A
c 14	143.8	39.4	1980090	20	US-10-719-993-6815	Sequence 6815, Ap
c 15	143.8	39.4	1980090	21	US-10-741-600-17676	Sequence 17676, A
c 16	143.6	39.3	11216	10	US-09-764-870-490	Sequence 490, App
c 17	142.6	39.1	155937	20	US-10-723-860-2208	Sequence 2208, Ap
c 18	141.8	38.8	3095	13	US-10-027-632-113781	Sequence 113781, Ap
c 19	141.8	38.8	3095	17	US-10-027-632-113781	Sequence 113781, Ap
c 20	141.6	38.8	160274	22	US-10-893-315-140	Sequence 140, App
c 21	141.6	38.8	160300	22	US-10-893-315-151	Sequence 151, App
c 22	140.8	38.6	607	13	US-10-027-632-188264	Sequence 188264, A
c 23	140.8	38.6	607	17	US-10-027-632-188264	Sequence 188264, A
c 24	140.8	38.6	1980090	20	US-10-719-993-6815	Sequence 6815, Ap
c 25	140.8	38.6	1980090	21	US-10-741-600-17676	Sequence 17676, A
c 26	140.6	38.5	827	13	US-10-027-632-157392	Sequence 157392, A
c 27	140.6	38.5	827	13	US-10-027-632-157393	Sequence 157393, A
c 28	140.6	38.5	827	17	US-10-027-632-157393	Sequence 157392, A
c 29	140.6	38.5	827	17	US-10-027-632-157393	Sequence 157393, A
c 30	140.6	38.5	51917	21	US-10-741-600-17758	Sequence 17758, A
c 31	140.4	38.5	130349	21	US-10-741-600-17619	Sequence 17619, A
c 32	140.4	38.5	138363	19	US-10-367-094-117	Sequence 117, App
c 33	140.2	38.4	150573	22	US-10-981-277-56	Sequence 56, Appl
c 34	140.2	38.4	169659	19	US-10-322-696-70	Sequence 70, Appl
c 35	140	38.4	14346	17	US-10-074-024-505	Sequence 505, App
c 36	140	38.4	34739	13	US-10-087-192-1846	Sequence 1846, Ap
c 37	140	38.4	546025	20	US-10-719-993-6862	Sequence 6862, Ap
c 38	139.8	38.3	5230	15	US-10-213-948-8	Sequence 8, Appli
c 39	139.6	38.2	26928	17	US-10-374-979-6	Sequence 6, Appli
c 40	139.6	38.2	26928	18	US-10-182-936A-6	Sequence 6, Appli
c 41	139.6	38.2	26928	19	US-10-731-739-6	Sequence 6, Appli
c 42	139.6	38.2	26928	20	US-10-477-238A-6	Sequence 6, Appli
c 43	139.6	38.2	26928	20	US-10-680-287A-6	Sequence 6, Appli
c 44	139.6	38.2	26928	21	US-10-477-173-6	Sequence 6, Appli
c 45	139.6	38.2	26928	22	US-10-834-377-6	Sequence 6, Appli

#### ALIGNMENTS

#### RESULT 1

US-08-731-499-9  
; Sequence 9, Application US/08731499  
; Publication No. US20030148270A1  
; GENERAL INFORMATION:  
; APPLICANT: GRAY, Joe W.  
; APPLICANT: COLLINS, Colin  
; APPLICANT: HWANG, Soo-In  
; APPLICANT: GODFREY, Tony  
; APPLICANT: KOWBEL, David  
; APPLICANT: KOWBEL, Johanna  
; TITLE OF INVENTION: GENES FROM THE 20q13 AMPLICON AND THEIR  
; TITLE OF INVENTION: USES  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew'  
; STREET: Two Embarcadero Center, 8th Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM: disk  
; MEDIUM TYPE: Floppy  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/731,499  
; FILING DATE: 16-OCT-1996  
; CLASSIFICATION: 435

1



Qy	100	AAGGTCCTTGCTCCGTCATCTAGATTGGAGTGCAGCGGTGTAATCATAGCTTACTAGT	159
Db	138314	CAGAGTCTCAGCTCTGTCAACCCAGCGTGAGTGCAGTGGTGTGATCTCAGCTCATCTCAAC	138373
Qy	160	CTTGAATTCCTGAGTTCAGAGATCCTTCTGCCTCAGCTTCCAGGTAGCTGAGACTATA	219
Db	138374	CTCCACCTCTGGGTTCAGGCNAATCTCTCTGCTTAGCCTCCCAAGTAGCTGGGACTATA	138433
Qy	220	TGTGC-TGCTACCATGCAAGCTGATTTTTTAAATTTTTTTTGTAGAGATGG-----A	270
Db	138434	GGCGCAGCGCACACGCGCCAGCTAATTTTTTGTATTTTTTAGTAGAGACAGGGTTTTTACCAC	138493
Qy	271	GTTGCCCAAGCTGGTCTTGAATCTCGTGCCTGAGTGATCTCTCGTGTGACTCCCAA	330
Db	138494	GTGGCCAGACCGGTCCTTGAATCTCTGACCTCAGTGATCTCCCACTCGGCTCCCA	138553
Qy	331	GTATCTTAGACTACAGATGCATCCACACGC	362
Db	138554	GGTGCTGGGATTTACAGGTGTGAGCACACCGTGC	138585

## RESULT 7

US-10-417-375-128  
; Sequence 128, Application US/10417375  
; Publication No. US20040219528A1

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/ GENERAL INFORMATION:
/ APPLICANT: David W. Morris
/ APPLICANT: Marc Malandro
/ TITLE OF INVENTION: Novel Therapeutic Targets in Cancer
/ FILE REFERENCE: 529452001600
/ CURRENT APPLICATION NUMBER: US/10/417,375
/ CURRENT FILING DATE: 2003-04-15

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Query Match	39.9%;	Score 145.8;	DB 20;	Length 430442;
Best Local similarity	67.3%;	Pred. No. 1.5e-29;		
Matches 239;	Conservative 0;	Mismatches 107;	Indels 9;	Gaps 2;
Qy	19	TTACTTAACTCTGCTGGTTAACTCTTAACCTCTGTATATTATCTTTTGATTGTGTTA	78	
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Qy	79	GTCTTACTTTATTTTATAGAAAGGGTCTTGCTCCGTCATCTAGATTGGAGTCACGGGT	138	
Db	221652	ATTTTATTTTATTTTGTGACAGAGTCTGGCTGTGTCACCCAGGCTGGAGTCAGTGGC	221711	
Qy	139	GTAATCANTAGCTTACTGTAGTCTTGAAATTCCTGAGTTCAAGAGATCCTTCTGCCTCAGCT	198	
Db	221712	ACGATCTCGGCTCGCTGCAACCTCTGCCTCTCTGGGTTCAAGTGATTCCTCGCTCAGCC	221771	
Qy	199	TCCCAGGTAGCTGAGACTATATGTCTGCTACCATGCACAGCTGATTTTAAATTTTTTT	258	
Db	221772	TCCCAGGTAGCTGGGATTACAAGCACT-CCACCACGCCACAGCTAAATTTTGTATTTTAG	221830	
Qy	259	TGTAGAGATGG-----AGTTGCCCAGGCTGGTCTTGAACCTCTGGCCTGAGGTGATC	310	
Db	221831	TGGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTTTGGAACTCTCTGGCCTCAGTGATC	221890	
Qy	311	CTCTCGGTTTGACCTCCCAAGTATCTTATAGACTACAGATGCACCTCCACCAACGGTTG	365	
Db	221891	CACCTGCTTGGCTTCCCAAGTGTGGGATTACAGGTGTGAGCCACCGCACTG	221945	

## RESULT 8

US-10-027-632-46474/c  
: Sequence 46474. Application US/10027632

Publication No. US20020198371A1  
GENERAL INFORMATION:

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%
% APPLICANT: Wang, David G.
% TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
% POLYMORPHISMS IN THE HUMAN GENOME
% FILE REFERENCE: 108827.129
% CURRENT APPLICATION NUMBER: US/10/027,632
% CURRENT FILING DATE: 2002-04-30
% PRIOR APPLICATION NUMBER: US 60/218,006
% PRIOR FILING DATE: 2000-07-12
% PRIOR APPLICATION NUMBER: US 60/198,676
% PRIOR FILING DATE: 2000-04-20
%

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Query Match	39.8%;	Score 145.4;	DB 13;	Length 437;
Best Local Similarity	68.4%;	Pred. No. 1.2e-30;		
Matches 232;	Conservative	1;	Mismatches 97;	Indels 9;
Gaps				2;

## RESULT 9

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US-10-027-632-46475/c
; Sequence 46475, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Ma
; TITLE OF INVENTION: Polymorphisms in the
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676

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; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46475
; LENGTH: 437
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-46475

Query Match          39.8%; Score 145.4; DB 13; Length 437;
Best Local Similarity 68.4%; Pred. No. 1.2e-30;
Matches 232; Conservative 1; Mismatches 97; Indels 9; Gaps 2;

Qy 36 TTTAACTCTTAACCTGTGTAATTTATCTTTTGAATTTGTTAGTCTTACTTTATTTTAA 95
Db 380 TTTTATTATTAGACATTTAGATTTTCCAAATTTTCTTTTCTTTTCTTTTCTTTT 321

Qy 96 GAGAAAGGGTCTTCCGCTCATCTAGATTGGAGTGCAGCGGTGTAATCATAGCTTACTG 155
Db 320 GAGACAGGGGTCTTGTCTGTCAACCCAGGCTCAAGTGTCTCTCTGCTTACGCTCCCAAGTAGCTGGAC 261

Qy 156 TAGCTTTGAATTTCTCGAGTTCAGAGATCTCTCTGCTCAGCTTCCCAGGTAGCTGAGAC 215
Db 260 CAGCCTCRACTTCCAGGCTCAAGTGTCTCTCTGCTTACGCTCCCAAGTAGCTGGAC 201

Qy 216 TATATG-TGCTGTACCATGCACAGCTGATTTTAAATTTTGTAGAGATGGAGTTG 274
Db 200 CACAGGCATGCACCAACACCTGGCTAAATTTTGTATTTTGTAGAGACAGGGTCTTG 141

Qy 275 -----CCAGGCTGGTCTTGAACCTCTGGGCTGAGGTGATCCTCGTTGACCTC 326
Db 140 CTCTATTACCAGGCTGATCTTGAACCTCTGGGCTCAGGTAATCTCCACCTTGCCCTC 81

Qy 327 CCAGTATCTTAGACTACAGATGCATCTCCACACGCTTG 365
Db 80 CGCGGCTGCTGGGATTACAGGTGTAGCCACACACCTG 42

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; Sequence 46474, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46475
; LENGTH: 437
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-46475

Query Match          39.8%; Score 145.4; DB 17; Length 437;
Best Local Similarity 68.4%; Pred. No. 1.2e-30;
Matches 232; Conservative 1; Mismatches 97; Indels 9; Gaps 2;

Qy 36 TTTAACTCTTAACCTGTGTAATTTATCTTTTGAATTTGTTAGTCTTACTTTATTTTAA 95
Db 380 TTTTATTATTAGACATTTAGATTTTCCAAATTTTCTTTTCTTTTCTTTTCTTTT 321

Qy 96 GAGAAAGGGTCTTCCGCTCATCTAGATTGGAGTGCAGCGGTGTAATCATAGCTTACTG 155
Db 320 GAGACAGGGGTCTTGTCTGTCAACCCAGGCTCAAGTGTCTCTCTGCTTACGCTCCCAAGTAGCTGGAC 261

Qy 156 TAGCTTTGAATTTCTCGAGTTCAGAGATCTCTCTGCTCAGCTTCCCAGGTAGCTGAGAC 215
Db 260 CAGCCTCRACTTCCAGGCTCAAGTGTCTCTCTGCTTACGCTCCCAAGTAGCTGGAC 201

Qy 216 TATATG-TGCTGTACCATGCACAGCTGATTTTAAATTTTGTAGAGATGGAGTTG 274
Db 200 CACAGGCATGCACCAACACCTGGCTAAATTTTGTATTTTGTAGAGACAGGGTCTTG 141

Qy 275 -----CCAGGCTGGTCTTGAACCTCTGGGCTGAGGTGATCCTCGTTGACCTC 326
Db 140 CTCTATTACCAGGCTGATCTTGAACCTCTGGGCTCAGGTAATCTCCACCTTGCCCTC 81

Qy 327 CCAGTATCTTAGACTACAGATGCATCTCCACACGCTTG 365
Db 80 CGCGGCTGCTGGGATTACAGGTGTAGCCACACACCTG 42

RESULT 11
US-10-027-632-46475/c
; Sequence 46475, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46475
; LENGTH: 437
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-46475

Query Match          39.8%; Score 145.4; DB 17; Length 437;
Best Local Similarity 68.4%; Pred. No. 1.2e-30;
Matches 232; Conservative 1; Mismatches 97; Indels 9; Gaps 2;
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QY 36 TTAACTCTTAAACCTGTGATTTTATCTTTGATTTGTTGTTAGTCTTACTTTATTTTAA 95  
DB 380 TTTTATTTATAGACATTTAGATTTTCCAAATTTTCTTTTCTTTTCTTTTCTTTTCTTTT 321  
QY 96 GAGAAAGGCTTGTGCTCCGTCATCTAGATTGGAGTGCAGCGGTGTAATCATAGCTTACTG 155  
DB 320 GAGACAGGCTTGTCTCTGTCACCCAGGCTGGAGTGCAGTGGTGTGATCAGCTCACTG 261  
QY 156 TAGTCTTTGAATTCCTGAGTTCAAGAGATCCTTCTGCTCAGCTTCCAGGTAGCTGAGAC 215  
DB 260 CAGCTCTACTTCCAGGCTCAAGTGATCTCTGCTTAGCTCCCAAGTAGCTGGAC 201  
QY 216 TATATG-TGCTGTACATCAGCAGCTGATTTTAAATTTTTTTTGTAGAGATGGAGTTG 274  
DB 200 CACAGGATGACACACACACCTGGCTAAATTTTGTATTTTGTAGAGACAGGCTTTG 141  
QY 275 -----CCAGGCTGTCTTGAACCTCCCTGGCTGAGGTGATCCTCTCGTTGACCTC 326  
DB 140 CTCTATTACCAAGCTGATCTTGAACCTTCTGGCTCAGGTAATCCTCCACCTTGCCTC 81  
QY 327 CCAAGTATCTTAGACTACAGATGCACTCCACCAAGCTTG 365  
DB 80 CGCGGCTGCTGGGATTACAGGTGTGAAGCCACCAACACCTG 42  
RESULT 12  
US-10-483-241-5  
; Sequence 5, Application US/10483241  
; Publication No. US20040259251A1  
; GENERAL INFORMATION:  
; APPLICANT: Broggini, Massimo  
; APPLICANT: D'Incalci, Maurizio  
; TITLE OF INVENTION: Oncosuppressive Gene  
; FILE REFERENCE: 2965-187  
; CURRENT APPLICATION NUMBER: US/10/483,241  
; PRIOR FILING DATE: 2004-01-09  
; PRIOR APPLICATION NUMBER: PCT/EP02/07625  
; PRIOR FILING DATE: 2002-07-09  
; PRIOR APPLICATION NUMBER: MI 2001A001465  
; PRIOR FILING DATE: 2001-07-10  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 5  
; LENGTH: 10735  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-483-241-5

Query Match 39.7%; Score 145; DB 20; Length 10735;  
Best Local Similarity 67.8%; Pred. No. 5,7e-30;  
Matches 234; Conservative 0; Mismatches 105; Indels 6; Gaps 2;

QY 19 TTACTTAACCTGTGGGTTTAACTCTTAAACCTGTGATTTTATCTTTGATTTGTTTAA 78  
DB 329 TTACTTTAACAATAATTAATTTTACATATATATAATTAATTTTAAATTTTAA 388  
QY 79 GTCTTACTTTATTTTAGAGAAAGGCTTGTGCTCCGTCATCTAGATTGGAGTGCAGCGGT 138  
DB 389 TTTTGTGGTTTTTTTGACAGAGAGTCTTGCTCTGTGCCTTAAGCTGAGTGTAGTGGC 448  
QY 139 GTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAGAGATCCTTCTGCTCAGCT 198  
DB 449 ACAATCACAGCTTACTTTAGTCTGACCTCCGAGCTCAAATAATCCTCCACCTCAGCC 508  
QY 199 TCCAGGTAGCTGAGACTATATG-TCTGTACCATGCACAGCTGATTTTAAATTTTTT 257  
DB 509 TCTGTAGTCTGGGACCAAGCGGTGTGCCACATGCTCGGCTGAATTTTGTATTTTTT 568  
QY 258 TTGTAGAG-----ATGAGGTTGCCAGGCTGGTCTTTGAATCCTCGGCTGAGGTGATCCT 312  
DB 569 GTAAGAGGCTCTCACTCTGTGTTGCCAGGCTGGTCTCAAACTTCTGAGCTCAAGTGATCCT 628

QY 313 CTTGCGTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCAC 357  
DB 629 CTTGCTTTGGCTCTCCCAAGTGTCTGGATTACAGGCGTGAGCCAC 673  
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US-10-674-124A-25157  
; Sequence 25157, Application US/10674124A  
; Publication No. US20040197797A1  
; GENERAL INFORMATION:  
; APPLICANT: INOKO, Hidetoshi  
; APPLICANT: TAMIVA, Gen  
; TITLE OF INVENTION: GENE MAPPING METHOD USING MICROSATELLITE  
; TITLE OF INVENTION: GENETIC POLYMORPHISM MARKERS  
; FILE REFERENCE: ORIN-003CIP  
; CURRENT APPLICATION NUMBER: US/10/674,124A  
; CURRENT FILING DATE: 2003-09-26  
; PRIOR APPLICATION NUMBER: 10/257,511  
; PRIOR FILING DATE: 2003-03-07  
; PRIOR APPLICATION NUMBER: PCT/JP00/07621  
; PRIOR FILING DATE: 2000-10-30  
; PRIOR APPLICATION NUMBER: JP2000-112699  
; PRIOR FILING DATE: 2000-04-13  
; PRIOR APPLICATION NUMBER: JP2002-327516  
; PRIOR FILING DATE: 2002-09-28  
; PRIOR APPLICATION NUMBER: JP2002-383869  
; PRIOR FILING DATE: 2002-12-09  
; NUMBER OF SEQ ID NOS: 27110  
; SEQ ID NO 25157  
; LENGTH: 399  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: DIS07\_00049858  
; FEATURE:  
; OTHER INFORMATION: Located on chromosome 21  
; FEATURE:  
; OTHER INFORMATION: Distance between a terminus base of telomere on  
; OTHER INFORMATION: chromosomal short arm and 5'-terminus of this base  
; OTHER INFORMATION: sequence : 30892783  
; FEATURE:  
; OTHER INFORMATION: Distance between 3'-terminus of neighbour sequence of  
; OTHER INFORMATION: sequence listing upward to telomere on chromosomal short arm and  
; OTHER INFORMATION: 5'-terminus of this base sequence : 120072  
US-10-674-124A-25157

Query Match 39.6%; Score 144.6; DB 19; Length 399;  
Best Local Similarity 64.8%; Pred. No. 2e-30;  
Matches 234; Conservative 0; Mismatches 119; Indels 8; Gaps 1;

QY 13 CAAGGCTTACTTAACCTCTGTGGTTTAACTCTTAAACCTGTGATTTTATCTTTTGA 72  
DB 2 CCAGGATTCCTGACTTTGGGGGAGAAATCCTGCCAGTGTCTTCTTTCTTTCTTTCT 61  
QY 73 TCTTTAGTCTTACTTTATTTTAGAGAAAGGCTTGTGCTCCGTCATCTAGATTGAGATGC 132  
DB 62 TTTCTTTTCTTTCTTTTCTTTTAAAGATAGGGTCTTGCTGTGCTCAGGCTGAGATGC 121  
QY 133 AGCGGTGTAATCATAGCTTACTGTAGTCTTGAATTCCTGAGTTCAAGAGATCCTTCTGCC 192  
DB 122 AGTGGTGTGATCATGGCTCACTGCAGCTTGACCTTCTAGGCTCAAGTATCTCCACC 181  
QY 193 TCAGCTTCCCAGGTAGCTGAGACTATATGTGTGTACCATGCACAGCTGATTTTAAAT 252  
DB 182 TCAGCTCCTCTAGTAGCTGGGACTACAGAGCATGCCCATGCCCGGCTAAATTTTGTAT 241  
QY 253 TTTTGTGTAGAGATGG-----AGTTGCCAGGCTGGTCTTGAACCTCTGGCCTGAG 304  
DB 242 TTTTGTAGAAACGGGGTTTCTATGTGTTGCCAGGCTGGTCTCAAACTCTCGGGCTCAA 301  
QY 305 GTGATCCTCTCGCTTGTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACCACT 364  
DB 302 GTGATCCACTGCTTGGCTTCCCAAGTGTGGGATTACAAAGTGTGAGCCACAGCACCT 361





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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 30, 2005, 02:54:04 ; Search time 2193 Seconds  
(without alignments)  
6335.366 Million cell updates/sec

Title: US-08-731-499-9\_COPY\_10001\_10365

Perfect score: 365

Sequence: 1 TTTGTGCTCTCCAAGCTT.....GATCCACTCCACCAAGCTTG 365

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*

1: gb\_est1.\*

2: gb\_est2.\*

3: gb\_est3.\*

4: gb\_est4.\*

5: gb\_est5.\*

6: gb\_est6.\*

7: gb\_est7.\*

8: gb\_est8.\*

9: gb\_est9.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	166	45.5	511	8	AQ512276 HS 5077 A
C 2	142	38.9	751	8	B2612069 WHADP28TR
C 3	141.6	38.8	2225	3	BC033179 Homo sapi
C 4	140.2	38.4	535	8	AQ213795 HS-2178 B
C 5	140	38.4	516	5	BU076629 im50c03.Y
C 6	139.6	38.2	1000	4	BN452708 AGENCOURT
C 7	139.4	38.2	485	7	CN263690 170004241
C 8	139.4	38.2	678	5	EX481790 DKZP686K
C 9	139.4	38.2	788	7	CK000205 AGENCOURT
C 10	139.4	38.2	837	6	CD656882 AGENCOURT
C 11	139.2	38.1	422	7	H73550 ys10h07.r1
C 12	138.8	38.0	384	2	AW884394 QV3-OT006
C 13	138.8	38.0	2198	3	HSM806754
C 14	138.6	38.0	8056	3	CF749384 Homo sapi
C 15	138.4	37.9	360	1	AI332671 qq33f08.x
C 16	138.4	37.9	509	8	AQ347397 RPI11-10
C 17	138.4	37.9	741	1	AI679747 tu76c03.x
C 18	138	37.8	482	8	AQ133619 HS 3047 A
C 19	138	37.8	677	9	AG094571 Pan trogl
C 20	137.8	37.8	561	5	EX475065 DKZP686F
C 21	137.8	37.8	606	6	CA748785 UI-H-FT1-
C 22	137.6	37.7	598	6	CD242461 AGENCOURT
C 23	137.6	37.7	629	8	AQ422183 RPI1-11-2
C 24	137.4	37.6	329	1	AI358712 qx14c02.x

ALIGNMENTS

RESULT 1  
AQ512276/c  
LOCUS AQ512276 511 bp DNA linear GSS 05-MAY-1999  
DEFINITION HS\_5077\_A2\_A10\_SP6E RPI1-11 Human Male BAC Library Homo sapiens  
genomic clone Plate=653 Col=20 Row=A, genomic survey sequence.  
ACCESSION AQ512276  
VERSION AQ512276.1 GI:4742829  
KEYWORDS GSS.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 511)  
AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,  
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and  
Hood,L.  
TITLE Sequence-tagged connectors: A sequence approach to mapping and  
scanning the human genome  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)  
MEDLINE 99380589  
PubMed 10443764  
COMMENT Contact: Mahairas GG, Wallace JC, Hood L  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA  
Tel: (206) 616-3618  
Fax: (206) 616-3887  
Email: jwallace@u.washington.edu  
Clones are derived from the human BAC library RPI1-11. For BAC  
library availability, please contact Pieter de Jong  
(pieterdejong.med.buffalo.edu). Clones may be purchased from  
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering\_bac.htm)  
or from Research Genetics (info@resgen.com). BAC end Web Server:  
http://www.htsc.washington.edu  
Plate: 653 row: A column: 20  
Seq primer: SP6  
Class: BAC ends  
High quality sequence stop: 511.  
Location/Qualifiers  
1. 511  
/organism="Homo sapiens"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9606"  
/clone="plate=653 Col=20 Row=A"  
/sex="male"  
/clone\_lib="RPI1-11 Human Male BAC Library"  
/notes="Vector: pBACe3.6; Site\_1: EcoRI; Site\_2: EcoRI;

Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRII. Size selected DNA was cloned into the pBACe3.6 vector at EcoRI sites"

## ORIGIN

Query Match 45.5%; Score 166; DB 8; Length 511;  
 Best Local Similarity 100.0%; Pred. No. 4.8e-24; Mismatches 0; Indels 0; Gaps 0;  
 Matches 166; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 pBACe3.6 vector at EcoRI sites"

QY 1 TTTGTGCTCCCAAGGCTTAACTCTGTGGTTTAACTCTTAAACCTGTGTAATTT 60  
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 DB 168 TTTGTGCTCCCAAGGCTTAACTCTGTGGTTTAACTCTTAAACCTGTGTAATTT 109  
 |||||

QY 61 ATTCTTTTGTATTTGTTAGTCTTACTTTATTTTATTTAGAGAAAGGCTTGTCTCGTCAATCT 120  
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DB 108 ATTCTTTTGTATTTGTTAGTCTTACTTTATTTTATTTAGAGAAAGGCTTGTCTCGTCAATCT 49  
 |||||

QY 121 AGATTGGAGTGCACGGGTGAATCATAGCTTACTGTAGTCTTGAAT 166  
 |||||

DB 48 AGATTGGAGTGCACGGGTGAATCATAGCTTACTGTAGTCTTGAAT 3  
 |||||

## RESULT 2

BZ612069/c  
 LOCUS BZ612069 751 bp DNA linear GSS 08-JUN-2003  
 DEFINITION WHAP28TR Human MCF7 breast cancer cell line library (MCF7\_1) Homo sapiens genomic clone MCF7\_1-22F8, genomic survey sequence.  
 ACCESSION BZ612069  
 VERSION BZ612069.1 GI:31520630  
 KEYWORDS GSS.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 751)  
 AUTHORS Volik S., Zhao S., Chin K., Brebner J.H., Herndon D.R., Tao Q., Kowbel D., Huang G., Lapuk A., Kuo W.-L., Magrane G., de Jong P., Gray J.W. and Collins C.  
 TITLE End-sequence profiling: Sequence-based analysis of aberrant genomes  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (13), 7696-7701 (2003)  
 MEDLINE 22709111  
 PUBMED 12788976  
 COMMENT Contact: Volik SV  
 Colin Collins' lab  
 UCSF Comprehensive Cancer Center  
 UCSF Box 0808, San Francisco, CA 94143-0808, USA  
 Tel: 415 502 7066  
 Fax: 415 502 5665  
 Email: svolik@cc.ucsf.edu  
 This clone is available from Amplicon Express  
 http://www.genomex.com  
 Class: BAC ends.  
 FEATURES  
 Location/Qualifiers  
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 /db\_xref="taxon:9606"  
 /clone="MCF7\_1-22F8"  
 /sex="female"  
 /clone\_lib="Human MCF7 breast cancer cell line library (MCF7\_1)"  
 /note="vector: pBCBAC1; Site\_1: HindIII; This library was constructed from MCF7 breast cancer cell line by Amplicon Express (http://www.genomex.com) using their standard procedure."

## FEATURES

source  
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 /organism="Homo sapiens"  
 /mol\_type="Genomic DNA"  
 /db\_xref="taxon:9606"  
 /clone="MCF7\_1-22F8"  
 /sex="female"  
 /clone\_lib="Human MCF7 breast cancer cell line library (MCF7\_1)"  
 /note="vector: pBCBAC1; Site\_1: HindIII; This library was constructed from MCF7 breast cancer cell line by Amplicon Express (http://www.genomex.com) using their standard procedure."

## ORIGIN

Query Match 38.9%; Score 142; DB 8; Length 751;  
 Best Local Similarity 69.4%; Pred. No. 3.7e-19;  
 Matches 225; Conservative 0; Mismatches 90; Indels 9; Gaps 2;  
 48 CCCTGTGTAATTTTATTTCTTTTGTATTTGTTAGTCTTACTTTATTTTATTTAGAGAAAGGCTCT 107

DB 443 CTCTTCATTTTGGGTTTTTGTGTTTTTGTGTTTTTGTGTTTTTGTGAGACGGAGCCT 384  
 |||||

QY 108 TGTCTCGTCAATCTAGATGTGAGTGCAGCGGTGAATCATAGCTTACTGTAGTCTTGAATT 167  
 |||||

DB 383 TGTCTGTGTCACCCAGGCTGGAGTGCAGTGTGTAATCTTTGGCTCACTGACGACCTCTGCCT 324  
 |||||

QY 168 CTTGAGTTCAAGAGATCTCTTCTGCTCAGCTCCAGGTCCAGTACCTATATATGTC-CTG 226  
 |||||

DB 323 CCGGGTTCAAGTGAATCTCTGCTCAGCTCCAGTACCTGCGGTATATAGTGCTC 264  
 |||||

QY 227 CTACCATGCACAGCTCAATTTTAAATTTTGTAGAGATGG-----AGTTGCCCA 278  
 |||||

DB 263 CTACCAAGCCCGGTAAATTTTGTATTTTGTAGAGACAGGTTTCCACATGCTGCGCA 204  
 |||||

QY 279 GGCTGCTGTGAATCTCTGCGCTGAGGTGATCTCTGCGTGGACCTCCCAAGTATCTTA 338  
 |||||

DB 203 GGCTGCTGTGAATCTCCAACTCAGGTGATCTGCCACCTCGGCTCCCAAGTGTGG 144  
 |||||

QY 339 GACTACAGATGCATCTCCACAGC 362  
 |||||

DB 143 GATTACAGGCGTGAGCCACCGCGC 120  
 |||||

## RESULT 3

BC033179  
 LOCUS BC033179 2225 bp mRNA linear HTC 01-APR-2004  
 DEFINITION Homo sapiens ATPase, Class I, type 8B, member 3, mRNA (cDNA clone IMAGE:4581020), with apparent retained intron.  
 ACCESSION BC033179  
 VERSION BC033179.1 GI:21619903  
 KEYWORDS HTC.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 2225)  
 AUTHORS Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalska U., Smalios D.E., Schnerch A., Schein J.E., Jones S.J. and Marra M.A.  
 TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)  
 PUBMED 12477932  
 REFERENCE 2 (bases 1 to 2225)  
 AUTHORS Strausberg R.  
 TITLE Direct Submission  
 JOURNAL Submitted (25-JUN-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

REMARK  
 COMMENT NIH-MGC Project URL: http://mgc.nci.nih.gov  
 Contact: MGC help desk  
 Email: cgabs-z@mail.nih.gov  
 Tissue Procurement: ARCC  
 cDNA Library Preparation: Rubin Laboratory  
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
 DNA Sequencing by: Genome Sequence Centre,

BC Cancer Agency, Vancouver, BC, Canada  
info@bcgsc.bc.ca

Steve Jones, Sarah Barber, Mabel Brown-John, Yaron Butterfield, Andy Chan, Steve S. Chand, William Chow, Alison Cloutier, Ruth Featherstone, Malachi Griffith, Obi Griffith, Ran Guin, Nancy Liao, Kim McDonald, Amara Masson, Mike R. Mayo, Josh Moran, Ryan Morin, Teika Olson, Diana Palmquist, Anca Petrescu, Anna Liisa Prahbu, Parvaneh Saeedi, JR Santos, Angélique Schnerch, Ursula Skalska, Duane Smailus, Jeff Stott, Miranda Tsai, George Yang, Jacquie Schein, Asim Siddiqui, Rob Holt, Marco Marra.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <http://image.lnl.gov>  
Series: IRAL Plate: 43 Row: F Column: 20  
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis  
This clone has the following problem: retained intron.

#### FEATURES

source  
1. .2225  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="mRNA"  
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/clone="IMAGE:4581020"  
/tissue type="Eye, retinoblastoma"  
/clone lib="NIH MGC 16"  
/lab host="DH10B-R"  
/note="Vector: pOTB7"

#### ORIGIN

Query Match 38.8%; Score 141.6; DB 3; Length 2225;  
Best Local Similarity 71.2%; Pred. No. 3.7e-19;  
Matches 218; Conservative 0; Mismatches 79; Indels 9; Gaps 2;  
  
Qy 66 TTTCGATTTGTTAGCTTACTTATTTTATGAGAAAGGGTCTGCTCCGTCATCTAGATT 125  
Db 1782 TTTTAAACAGTGTGTATTTATTTATTTTTCAGATGGGCTCTGCTCGCGCCAGGCT 1841  
  
Qy 126 GGAGTCAGCGGTGTAATCATAGCTTACTGAGTCTTGAATTCCTGAGTTCAAGAGATCC 185  
Db 1842 GGAATGAGTGGTGCAATCATAGCTTATTCAGCCTCGAATTCCTGGGCTCAAGCAATCC 1901  
  
Qy 186 TTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTG-CTGCTACCATGCACAGCTGAT 244  
Db 1902 TCCACCTTCACTTCCCAAGTAGCGGACTATAGGAGAGTGCCACCTTACCAGCTTAT 1961  
  
Qy 245 TTTTAAATTTTGTGATGAGATGGA-----GTTGCCAGGCTGGTCTTGAATCTCT 296  
Db 1962 TTTTGTATTTTGTCAAGACAGGGAATCCCTATGTTGCCAGGCTGGTCTTGAATCTCT 2021  
  
Qy 297 GGCTGAGGTGATCCTCTCGGTGACCTCCCAAGTATCTTAGACTACAGATGCACTCCA 356  
Db 2022 GGGCTTAAGCGATCCGCTCGCTCCCTGCTTTTCAAGCACTGGAATTACAGATGTGAGCCA 2081  
  
Qy 357 CCACGC 362  
Db 2082 CCACAC 2087

#### RESULT 4

AQ213795 535 bp DNA linear GSS 18-SEP-1998  
LOCUS HS\_2178\_B2\_A10\_MR CIT Approved Human Genomic Sperm Library D Homo sapiens genomic clone Plate=2178 Col=20 Row=B, genomic survey sequence.  
DEFINITION  
ACCESSION AQ213795  
VERSION AQ213795.1 GI:3624996  
KEYWORDS GSS.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 535)

#### AUTHORS

Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and Hood,L.

#### TITLE

Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome

#### JOURNAL

Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)

#### MEDLINE

99380589

#### PUBMED

10449764

#### COMMENT

Contact: Mahairas GG, Wallace JC, Hood L  
High Throughput Sequencing Center  
University of Washington  
401 Queen Anne Avenue North, Seattle, WA 98109, USA

Tel: (206) 616-3618

Fax: (206) 616-3887

Email: jwallace@u.washington.edu

Sequence Tagged Connector

Plate: 2178 row: B column: 20

Class: BAC ends

High quality sequence stop: 535.

Location/Qualifiers

#### FEATURES

source  
1. .535  
Location/Qualifiers  
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/db\_xref="taxon:9606"  
/clone="Plate=2178 Col=20 Row=B"  
/sex="male"  
/clone lib="CIT Approved Human Genomic Sperm Library D"  
/note="Organ: sperm; Vector: pBelobAC11, BAC Clones in E-Coli DH10B"

#### ORIGIN

Query Match 38.4%; Score 140.2; DB 8; Length 535;  
Best Local Similarity 70.1%; Pred. No. 9.1e-19;  
Matches 216; Conservative 0; Mismatches 89; Indels 3; Gaps 2;  
  
Qy 59 TTATCTTTGATTTGTTAGTCTTACTTTATTTTATGAGAAAGGGTCTGCTCCGTCAT 118  
Db 106 TTTCTATTAGTTNTGTTTGTCTTGTGTTGTGAGACAGAGTCTTGCTGTGTGC 165  
  
Qy 119 CTAGATTGGAGTCAGCGGTGTAATCATAGCTTACTGCTAGTCTTGAATTCCTGAGTTCAA 178  
Db 166 CCAGGCTGGAGTGCATATGTTGATCTTGCTCACTGCAGCCTCCGCTCCAGGTTCAA 225  
  
Qy 179 GAGATCCTTCTGCTCAGCTTCCAGGTAGCTGAGACTATATGTG-TCGTACCATGCAC 237  
Db 226 GTGATTTCTCTGCTCAGCTACCGAGCAGCTGGGACTACAGTGGCTGCCACCATGCTCC 285  
  
Qy 238 AGCTGATTTTAAATTTTGTAGAGATGGAGTTGCCAGGCTGGTCTTTGAACCTCTG 297  
Db 286 AGCTAATTTT--GTATTTTAGTAGAGACCATGTTGGCCAGGCTGGTCTCGAACTCCTG 343  
  
Qy 298 GCCTGAGGTGATCCTCTCGGTGACCTCCCAAGTATCTTAGACTACAGATGCACTCCAC 357  
Db 344 ACCTCAAGTATGCTGCTGCTCAGCCTCCCAAGTCTGGGATTACAGGTGTGAGCCAC 403  
  
Qy 358 CACGCTTG 365  
Db 404 CACACCTG 411

#### RESULT 5

BU076629/c 516 bp mRNA linear EST 27-AUG-2002  
LOCUS BU076629 im50c03.y1 HR85 islet Homo sapiens cDNA clone IMAGE:6038404 5', mRNA sequence.  
DEFINITION  
ACCESSION BU076629  
VERSION BU076629.1 GI:22517811  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 516)

<p>AUTHORS Melton, D., Brown, J., Kenty, G., Permutt, A., Lee, C., Kaestner, K., Lemishka, I., Searce, M., Brestelli, J., Gradwohl, G., Clifton, S., Hillier, L., Marra, M., Pape, D., Wylie, T., Martin, J., Blistain, A., Schmitt, A., Theising, B., Ritter, E., Ronko, I., Bennett, J., Cardenas, M., Gibbons, M., McCann, R., Cole, R., Tsagarishvili, R., Williams, T., Jackson, Y. and Bowers, Y. Endocrine Pancreas Consortium Unpublished (2000) Contact: Douglas Melton, Klaus H. Kaestner, &amp; Hiroshi Inoue Endocrine Pancreas Consortium Harvard University, Howard Hughes Medical Institute Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138 Tel: 617-495-1812 Fax: 617-495-8557 Email: dmelton@biohpc.harvard.edu Library was constructed by Dr. Hiroshi Inoue DNA sequencing by: Washington University Genome Sequencing Center For information on obtaining a clone please contact: Dr. Hiroshi Inoue (hinoue@im.wustl.edu) Seq primer: -40RP from Gibco High quality sequence stop: 468. Location/Qualifiers 1. 516 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:6038404" /tissue_type="Purified pancreatic islet" /lab_host="DH10B" /clone_lib="HR85 islet" /note="Organ: Pancreas; Vector: pBluescript SK(-); Site_1: NotI; Site_2: XhoI; cDNA made by oligo-dT priming. Size-selected on agarose gel. Average insert size ~1kb. 5' XhoI site was destroyed after directional cloning. Amplified once. Contact information: Hiroshi Inoue, MD, Metabolism Div. (Alan Permutt Lab), Washington University School of Medicine, Box 8127, 660 South Euclid Ave., St. Louis, MO 63110, E-mail: hinoue@imgate.wustl.edu, Tel: 314-362-1916, Fax: 314-747-2692."</p>		<p>LOCUS DEFINITION BM452708 AGENCOURT 6401261 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:5498573 5', mRNA sequence. BM452708 VERSION BM452708.1 GI:18501748 EST. Homo sapiens (human) Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1000) NIH-MGC http://imgc.ncbi.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgapbs@mail.nih.gov Tissue Procurement: Lou Staudt cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM12130 row: i column: 06 High quality sequence stop: 634. Location/Qualifiers 1. 1000 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:5498573" /tissue_type="lymphoma, cell line" /lab_host="DH10B (phage-resistant)" /clone_lib="NIH_MGC_85" /note="Organ: lymph; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.867 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC Library."</p>	
<p>TITLE JOURNAL COMMENT Contact: Douglas Melton, Klaus H. Kaestner, &amp; Hiroshi Inoue Endocrine Pancreas Consortium Harvard University, Howard Hughes Medical Institute Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138 Tel: 617-495-1812 Fax: 617-495-8557 Email: dmelton@biohpc.harvard.edu Library was constructed by Dr. Hiroshi Inoue DNA sequencing by: Washington University Genome Sequencing Center For information on obtaining a clone please contact: Dr. Hiroshi Inoue (hinoue@im.wustl.edu) Seq primer: -40RP from Gibco High quality sequence stop: 468. Location/Qualifiers 1. 516 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:6038404" /tissue_type="Purified pancreatic islet" /lab_host="DH10B" /clone_lib="HR85 islet" /note="Organ: Pancreas; Vector: pBluescript SK(-); Site_1: NotI; Site_2: XhoI; cDNA made by oligo-dT priming. Size-selected on agarose gel. Average insert size ~1kb. 5' XhoI site was destroyed after directional cloning. Amplified once. Contact information: Hiroshi Inoue, MD, Metabolism Div. (Alan Permutt Lab), Washington University School of Medicine, Box 8127, 660 South Euclid Ave., St. Louis, MO 63110, E-mail: hinoue@imgate.wustl.edu, Tel: 314-362-1916, Fax: 314-747-2692."</p>		<p>ORIGIN Query Match 38.4%; Score 140; DB 5; Length 516; Best Local Similarity 70.9%; Pred. No. 1e-18; Matches 217; Conservative 0; Mismatches 80; Indels 9; Gaps 2; QY 66 TTGATTGTTGTTAGTCTTACTTTATTTTATAGAGAAAGGGCTTGCTCGCTCATCTGAGTT 125 DB 421 TTTTAAACAGTGTGTTATTTATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTA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Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
Brazil  
Tel: +55-11-2704922  
Fax: +55-11-2707001  
Email: [asimpson@ludwig.org.br](mailto:asimpson@ludwig.org.br)  
This sequence was derived from the FAPESP/LICR Human Cancer Genome  
Project. This entry can be seen in the following URL  
(<http://www.ludwig.org.br/scripts/gethtml2.pl?tbl=st=QV3-OT0065-290>  
300-137-a06&t3=2000-03-29&t4=1)  
Seq primer: puc 18 forward  
High quality sequence start: 10  
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FEATURES
source
Location/Qualifiers
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Smal; A mini-library was
from ORESTES PCR (0.5:
196,716 - Ludwig Instit
into the PUC 18 vector.
mRNA and cDNA amplificat
stringency conditions."

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ORIGIN	Query Match	38.0%;	Score 138.8;	DB 2;	Length 384;
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	Matches 212;	Conservative 0;	Mismatches 67;	Indels 13;	Gaps 2;
Qy	87	TTATTTTGTAGAAAGGGTCTTGCTCCGTCAATCTAGATTGGAGTGCAGCGGTGTAATCAT	146		
Db	331	TTCGTTTGTAGACAGGGTCTCGCTCTGTTGCTCAGGCCGAAGTGCAGTGGTGCATCAT	272		
Qy	147	AGCTTACTGTAGTCTTGAATTCCTGAGTTCAGAGATCCCTTCTGCCTCAGCTTCCCAGGT	206		
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Qy	207	AGCTGAGACTATATGTGCTGG- - - -TACCATGCACAGCTGATTTTAAATTTTTTTTGTA	262		
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Qy	263	GAGATGG- - - - -AGTTGCCAGGCTGGTCTTTGAACCTCTGGCCTGAGGTGATCCTC	313		
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Qy	314	CTGGTTTGACCTCCCAAGTATCTTAGACTACAGATGCACCTCCACACGCTTG	365		
Db	91	TTGCGTTGGTCTGCGCAAGTAGCTGGTACTATAGGTGTGCACCAACCACTAG	40		

RESULT	13
LOCUS	HSM806754/c
DEFINITION	Homo sapiens mRNA; CDNA DKFZP686A24102 (from clone DKFP686A24102).
ACCESSION	BX641053
VERSION	BX641053.1
KEYWORDS	HTC.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 2198)
REFERENCE	Pouskasa,A., Albert,R., Moosmayer,P., Schupp,I., Wellenreuther,R., Mewes,H.W., Weill,B., Amid,C., Osanger,A., Fobo,G., Han,M. and Wiemann,S.
AUTHORS	The German cDNA Consortium Direct Submission
CONSTRM	Submitted (13-JUL-2004) MIPS, Ingolstaedter Landstr.1, D-85764
TITLE	Neuberberg, GERMANY
JOURNAL	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
COMMENT	

Research Center (DKFZ); Email: s.wiemann@dkfz-heidelberg.de; sequenced by DKFZ (German Cancer Research Center, Heidelberg/Germany) within the CDNA sequencing consortium of the German Genome Project. This clone (DKFZp686A24102) is available at the RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH in Berlin, Germany. Please contact RZPD for ordering: <http://www.rzpd.de/cgi-bin/products/cl.cgi?cloneID=DKFZp686A24102>. Further information about the clone and the sequencing project is available at <http://mips.gsf.de/projects/cdna/>.

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FEATURES
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location/Qualifiers
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DH10B; sites SfIIa + SfIIb
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/note="unspliced mRNA"

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## ORIGIN

[illegible]

RESULT 14

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LOCUS				
DEFINITION	Homo sapiens mRNA; cDNA DKFP686F02110 (from clone DKFP686F02110).			
ACCESSION	CR749384			
VERSION	CR749384.1	GI:51476491		
KEYWORDS	HTC.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
AUTHORS	Koehler,K., Bever,A., Mewes,H.W., Weil,B., Amid,C., Osanger,A., Fobo,G., Han,M. and Wiemann,S.			
CONSTRM	The German cDNA Consortium			
TITLE	Direct Submission			
JOURNAL	Submitted (17-AUG-2004) MIPS, Ingolstaedter Landstr.1, D-85764 Neuherberg, GERMANY			
COMMENT	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by BMFZ (Biomedical Research Center at the Heinrich-Heine-University, Duesseldorf/Germany) within the cDNA			



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